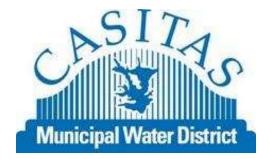
Safety Data Sheets

All Locations



Vehicles

10/16/2020



Safety Data Sheet Index Binder: Vehicles - All Locations

Product Name	CAS Number	Manufacturer	Version Date	Page
Aeroshell Grease 7 - AEROSHELL Grease 17		Shell Corporation	07/03/2008	3
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Zinc-it Instant Cold Galvanize - Zinc-It Instant Cold Galvanize		CRC Industries, Inc.	04/04/2018	89

There was a problem getting the SDS for -

Product Name: AEROSHELL Grease 17 CAS Number: Manufacturer: Shell Corporation SDS Date: 7/3/2008

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

There was a problem getting the SDS for -

Product Name: GOJO FAST WIPES HAND CLEANING TOWELS **CAS Number: Manufacturer:** GOJO Industries, Inc. **SDS Date:** 10/20/2010

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again



Date Prepared: 03/26/2014

Reviewed On: 03/26/2014

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	CILII	icatio	
	~~~~		

- · Product Identifier
- · Product Name: Gram Safranin
- · Catalog Number: 212531
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture In-vitro Diagnostics
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: BD Diagnostic Systems 7 Loveton Circle Sparks, MD 21152 Telephone: (410) 771 - 0100 or (800) 638 – 8663 Email Address: Technical_Services@bd.com
   Information Department: Technical Service
- Emergency telephone number: In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

## 2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R40: Limited evidence of a carcinogenic effect.

R10: Flammable.

#### · Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

#### · Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms

GHS02

· Signal word Warning

Hazard statements

H226 Flammable liquid and vapour.

(Contd. on page 2)

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(Contd. of page 1)



Date Prepared: 03/26/2014

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#### Product Name: Gram Safranin

Precautionary sta	tements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
	clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
	Dispose of contents/container in accordance with local/regional/national/ international regulations.

#### · NFPA ratings (scale 0-4)



 $\begin{aligned} \text{Health} &= 0\\ \text{Flammability} &= 2\\ \text{Reactivity} &= 0 \end{aligned}$ 

#### HMIS ratings (scale 0-4)

HEALTH 0	Health = 0
FIRE 2	Flammability = 2
<b>REACTIVITY</b> 0	Reactivity = 0

#### · Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

• **vPvB:** Not applicable.

#### **3** Composition/information on ingredients

- · Chemical characterization: Mixture
- · Description: Mixture consisting of the following components.

#### · Dangerous Components:

Eangereas compo			
CAS: 64-17-5	ethanol	F R10	19.0%
EINECS: 200-578-6			
CAS: 67-56-1	methanol	T R23/24/25-39/23/24/25; F R11	1.0%
EINECS: 200-659-6			
Additional information Risk phrases refer to section 15.			

(Contd. on page 3)

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Date Prepared: 03/26/2014

#### Reviewed On: 03/26/2014

#### Product Name: Gram Safranin

(Contd. of page 2)

#### 4 First-aid measures

- · Description of first aid measures
- · General information

Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.

- · After inhalation Seek medical treatment in case of complaints.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for 15 minutes under running water. Then consult a doctor.

- · After swallowing Immediately call a doctor.
- · Information for doctor Show this product label or this MSDS.
- Most important symptoms and effects, both acute and delayed
   Dizziness
   Headache
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Fire-fighting measures

Extinguishing media

- Suitable extinguishing agents CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Wipe up with damp sponge or mop.
- · Methods and material for containment and cleaning up: No special measures required.
- Reference to other sections
   See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · Handling
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 4)



Date Prepared: 03/26/2014

Reviewed On: 03/26/2014

#### Product Name: Gram Safranin

Product	Name: Gram Safranin	
Keej	<b>rmation about protection against explosions and fires:</b> o ignition sources away - Do not smoke. ect against electrostatic charges.	(Contd. of page 3)
<ul> <li>Stor</li> <li>Req</li> <li>Info</li> <li>Do n</li> <li>Furt</li> <li>Store</li> <li>Stor</li> </ul>	ditions for safe storage, including any incompatibilities rage uirements to be met by storerooms and receptacles: 15 - 30 °C rmation about storage in one common storage facility: not store together with oxidizing and acidic materials. ther information about storage conditions: e in cool, dry conditions in well sealed containers. rage class II A cific end use(s) No further relevant information available.	
8 Exp	oosure controls/personal protection	
	l <b>itional information about design of technical systems:</b> urther data; see Section 7.	
· Con	trol parameters	
· Con	nponents with limit values that require monitoring at the workplace:	
64-1	7-5 ethanol	
PEL	1900 mg/m³, 1000 ppm	
REL	1900 mg/m³, 1000 ppm	
TLV	1880 mg/m³, 1000 ppm	
67-5	6-1 methanol	
PEL	260 mg/m³, 200 ppm	
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
TLV	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI	
· Add	itional information: The lists that were valid during the creation were us	ed as basis.
·Exp	osure controls	
-	sonal Protective Equipment	
	eral protective and hygienic measures	
	b away from foodstuffs, beverages and feed.	
	ediately remove all soiled and contaminated clothing.	
	h hands before breaks and at the end of work. id contact with the eyes and skin.	
	athing equipment:	
	ase of brief exposure use a chemical fume hood or a NIOSH/MSHA-appl	roved respirator

In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator. (Contd. on page 5)

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Product Name: Gram Safranin

(Contd. of page 4)

· Protection of hands:

Chemical resistant gloves (i.e. nitrile, or equivalent).

· Eye protection: Safety glasses

· Body protection: Protective work clothing (lab coat).

<ul> <li>Information on basic physical a</li> <li>General Information</li> </ul>	and chemical properties
· Appearance:	
Form:	Liquid
Color:	Red
· Odor:	Characteristic
· Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	79 °C (174 °F)
· Flash point:	38.9 °C (102 °F)
· Ignition temperature:	425.0 °C (797 °F)
· Auto igniting:	Product is not self igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	6.5 Vol %
Upper:	22 Vol %
· Vapor pressure at 25 °C (77 °F)	: 59.0 hPa (44 mm Hg)
· Density:	Not determined
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Soluble
· Solvent content:	
Organic solvents:	20.0 %
· Other information	No further relevant information available.

(Contd. on page 6)



Date Prepared: 03/26/2014

#### Reviewed On: 03/26/2014

#### Product Name: Gram Safranin

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#### 10 Stability and reactivity

#### · Reactivity

- · Chemical stability
- $\cdot$  Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Incompatible materials: strong acids and oxidizers.

#### • Hazardous decomposition products: Carbon monoxide (CO) and carbon dioxide (CO2) Nitrogen oxides (NOx) Hydrogen chloride (HCI)

#### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- 64-17-5 ethanol

Oral LD50 3450 mg/kg (MOU)

7060 mg/kg (rat)

#### 67-56-1 methanol

Oral LD50 5628 mg/kg (rat)

#### · Primary irritant effect:

- · on the skin: No irritating effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Subacute to chronic toxicity:

Target organs: eyes, kidneys, tumor formation, reproductive disorders Target organs: thyroid, kidney, ureter or bladder tumors.

 Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:

#### · Carcinogenic categories

#### · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 7)

US



Date Prepared: 03/26/2014

#### Reviewed On: 03/26/2014

Product Name: Gram Safranin

(Contd. of page 6)

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: This material is not expected to be toxic to aquatic life.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · Additional ecological information:
- · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

## **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation

Must not be disposed of with solid waste. Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. RCRA hazardous waste - RCRA # D001 (ignitable).

· Uncleaned packagings:

· Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT	UN3316	
ADR, IMDG, IATA	3316	
UN proper shipping name		
ADR	3316 CHEMICAL KITS	
IMDG, IATA	CHEMICAL KITS	



Date Prepared: 03/26/2014

Reviewed On: 03/26/2014

	(Contd. of page
Transport hazard class(es)	
DOT, IMDG, IATA	
· Class	9 Miscellaneous dangerous substances and articles.
Label	9
ADR	
· Class	9 (M11) Miscellaneous dangerous substance and articles
Label	9
· Packing group	
· DOT, ADR, IMDG, IATA	<i>III</i>
• Environmental hazards: • Marine pollutant:	No
Special precautions for user	Warning: Miscellaneous dangerous substance and articles
EMS Number:	F-A,S-P
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.

# **15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

64-17-5 ethanol

67-56-1 methanol

(Contd. on page 9) US



Reviewed On: 03/26/2014

Product Name: Gram Safranin

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- · TSCA (Toxic Substances Control Act)
- All ingredients are listed.
- California Proposition 65 Chemicals known to cause cancer
- None of the ingredients is listed.
- California Proposition 65 Chemicals known to cause reproductive toxicity for females:
- None of the ingredients is listed.
- · California Proposition 65 Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
- · California Proposition 65 Chemicals known to cause developmental toxicity:
- 64-17-5 ethanol
- Carcinogenic categories
- TLV (Threshold Limit Value established by ACGIH)
- 64-17-5 ethanol

- A4
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms

GHS02

- · Signal word Warning
- · Hazard statements
- H226 Flammable liquid and vapour.
- · Precautionary statements

i i couulionui y siu	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
	clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.
· Chemical safety a	assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 10)



Date Prepared: 03/26/2014

#### Reviewed On: 03/26/2014

#### Product Name: Gram Safranin

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#### **16 Other information**

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

- Department issuing MSDS: Environmental, Health & Safety Created by Michael J. Spinazzola
- Contact: Technical Service Representative
- · Date of preparation / last revision 03/26/2014 / 1
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Flam. Lig. 3: Flammable liquids, Hazard Category 3

US -

There was a problem getting the SDS for -

Product Name: Heavy Duty Degreaser II CAS Number: Manufacturer: CRC Industries, Inc. SDS Date: 2/15/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

There was a problem getting the SDS for -

Product Name: HF Contact Cleaner CAS Number: Manufacturer: CRC Industries, Inc. SDS Date: 5/20/2014

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

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# SAFETY DATA SHEET

## 1. Identification

1. Identification		
Product identifier	Lectra Force™	
Other means of identification		
Product Code	No. 02115 (Item# 1003207)	
Recommended use	Electrical cleaner	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	/Distributor information	
Manufactured or sold by:		
Company name	CRC Industries, Inc.	
Address	885 Louis Dr.	
	Warminster, PA 18974 US	
Telephone		
General Information	215-674-4300	
Technical Assistance	800-521-3168	
Customer Service	800-272-4620	
24-Hour Emergency	800-424-9300 (US)	
(CHEMTREC)	703-527-3887 (International)	
Website	www.crcindustries.com	
2. Hazard(s) identification	l	
Physical hazards	Gases under pressure	Compressed gas
	Gases under pressure	Liquefied gas
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	5.5
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Contains gas under pressure; may explode if heated. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.	
Precautionary statement		
Prevention	Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49°C/120°F. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection. Wear protective gloves.	

Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Storage	Store locked up. Protect from sunlight. Store in a well-ventilated place. Exposure to high temperature may cause can to burst.	
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	

#### Supplemental information

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride and possibly phosgene.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
1,1,1,2-tetrafluoroethane	HFC-134a	811-97-2	40 - 50
trans-1,2-dichloroethylene		156-60-5	40 - 50
decafluoropentane	HFC 43-10mee	138495-42-8	5 - 10
carbon dioxide		124-38-9	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride and possibly phosgene.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
General fire hazards	Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

#### 6. Accidental release measures

o. Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, see the product label.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 ppm	
trans-1,2-dichloroethylene (CAS 156-60-5)	PEL	790 mg/m3	
· · · · ·		200 ppm	
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
,	TWA	5000 ppm	
trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	200 ppm	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
,		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	790 mg/m3	

Components	Туре	Value
		200 ppm
US. Workplace Environme Components	ental Exposure Level (WEEL) Guides Type	Value
1,1,1,2-tetrafluoroethane (CAS 811-97-2)	TWA	4240 mg/m3
		1000 ppm
Biological limit values	No biological exposure limits noted for the	ne ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provid eyewash station. Eye wash fountain and emergency showers are recommended.	
ndividual protection measure	s, such as personal protective equipment	t
Eye/face protection	Wear safety glasses with side shields (o	r goggles).
Skin protection		
Hand protection	Wear protective gloves such as: Nitrile.	Viton/butyl. Polyvinyl alcohol (PVA).
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.	
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.	
Thermal hazards	Wear appropriate thermal protective clot	hing, when necessary.
General hygiene considerations	hygiene measures, such as washing after	rom food and drink. Always observe good personal er handling the material and before eating, drinking, and/or and protective equipment to remove contaminants.

# 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Aerosol.
Color	Colorless.
Odor	Slight ethereal.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-119.2 °F (-84 °C) estimated
Initial boiling point and boiling range	119.7 °F (48.7 °C) estimated
Flash point	None (Tag Closed Cup)
Evaporation rate	Fast.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	2 % estimated
Flammability limit - upper (%)	18 % estimated
Vapor pressure	4649 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	1.25 estimated
Solubility (water)	Slight.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	860 °F (460 °C) estimated

Decomposition temperature	Not available.	
Viscosity (kinematic)	Not available.	
Percent volatile	97.9 % estimated	
10. Stability and reactivit	.y	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride and possibly phosgene.	
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases. Alkali metals. Alkaline earth metals. Powdered metal.	
Hazardous decomposition products	Carbon oxides. Hydrogen chloride. Phosgene. Hydrogen fluoride.	
11. Toxicological information	ation	
Information on likely routes of	exposure	
Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.	
Skin contact	Causes skin irritation.	
Eye contact	Causes serious eye irritation.	
Ingestion	Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.	
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.	

#### Information on toxicological effects

Acute toxicity

In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. May be fatal if swallowed and enters airways.

Product	Species	Test Results
Lectra Force™		
Acute		
Dermal		
LD50	Rabbit	5033.2 mg/kg calculated
Inhalation		
LC50	Rat	96.6 mg/l, 4 hours calculated
Oral		
LD50	Rat	1465.7 mg/kg calculated
Components	Species	Test Results
decafluoropentane (CAS 138	8495-42-8)	
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Inhalation		
LC50	Rat	11058 mg/kg, 4 hours calculated
Oral		
LD50	Rat	> 5000 mg/kg

Components	Species	Test Results
trans-1,2-dichloroethylene (CAS 1	56-60-5)	
<u>Acute</u>		
Oral		
LD50	Rat	1235 mg/kg
* Estimates for product may b	e based on additional component	data not shown.
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to	cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not listed.		
OSHA Specifically Regulate	d Substances (29 CFR 1910.10	01-1050)
Not regulated.		
••	ogram (NTP) Report on Carcino	gens
Not listed.	This product is not expected to	aques conceluctive or developmental offects
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause drowsiness and diz	ziness.
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting may cause chemical pneumonia, pulmonary injury or death.	
Chronic effects	Prolonged inhalation may be harmful.	

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
decafluoropentane (CA	AS 138495-42-8)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	11.7 mg/l, 48 hours
Fish	LC50	Zebra danio (Danio rerio)	13 mg/l, 96 hours
trans-1,2-dichloroethyle	ene (CAS 156-60-5	5)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	120 - 160 mg/l, 96 hours
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	220 mg/l, 48 hours

* Estimates for product may be based on additional component data not shown.

# Persistence and degradability

#### **Bioaccumulative potential**

Partition coefficient n-octan	ol / water (log Kow)
1,1,1,2-tetrafluoroethane	1.274
decafluoropentane	2.7, Pow at 20 °C
trans-1,2-dichloroethylene	2.06
Mobility in soil	No data available.
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.

# 13. Disposal considerations

Disposal of waste from residues / unused products	The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Empty container can be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.
Hazardous waste code	Not regulated.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

# 14. Transport information

DOT	
-----	--

UN1950
Aerosols, non-flammable, Limited Quantity
2.2
-
2.2
Not applicable.
Read safety instructions, SDS and emergency procedures before handling.
306
None
None
UN1950
Aerosols, non-flammable, Limited Quantity
2.2
-
Not applicable.
2L
Read safety instructions, SDS and emergency procedures before handling.
Allowed with restrictions.
Allowed with restrictions.
UN1950
AEROSOLS, Limited Quantity
2
-
Not applicable.
No.
Not available.
Read safety instructions, SDS and emergency procedures before handling.

#### 15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA Section 12(b) Exp	ort Notification (40 CFR 70	)7, Subpt. D)	
decafluoropentane (0 SARA 304 Emergency re	/	1.0 % One-Time Export Notification only.	
Not regulated. OSHA Specifically Regu	llated Substances (29 CFR	1910.1001-1050)	
Not regulated.			
US EPCRA (SARA Title	III) Section 313 - Toxic Che	emical: Listed substance	
Not listed.			
Material services and a stree Device TM			

#### CERCLA Hazardous Substance List (40 CFR 302.4)

trans-1,2-dichloroethylene (CAS 156-60-5)

Listed.

#### **CERCLA Hazardous Substances: Reportable quantity**

trans-1,2-dichloroethylene (CAS 156-60-5)

1000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

Food and Drug Not regulated. Administration (FDA)

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No

#### **US state regulations**

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

trans-1,2-dichloroethylene (CAS 156-60-5)

#### US. New Jersey Worker and Community Right-to-Know Act

carbon dioxide (CAS 124-38-9) trans-1,2-dichloroethylene (CAS 156-60-5)

#### US. Massachusetts RTK - Substance List

carbon dioxide (CAS 124-38-9) trans-1,2-dichloroethylene (CAS 156-60-5)

#### US. Pennsylvania Worker and Community Right-to-Know Law

carbon dioxide (CAS 124-38-9) trans-1,2-dichloroethylene (CAS 156-60-5)

#### US. Rhode Island RTK

carbon dioxide (CAS 124-38-9) trans-1,2-dichloroethylene (CAS 156-60-5)

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### Volatile organic compounds (VOC) regulations

EPA			
VOC content (40 CFR 51.100(s))	42.4 %		
Consumer products (40 CFR 59, Subpt. C)	Not regulated		
State			
Consumer products	This product is regulated as an Electrical Cleaner. This product is not compliant to be sold for use in California. This product is compliant in all other states.		
VOC content (CA)	49.9 %		
VOC content (OTC)	42.4 %		
International Inventories			
Country(s) or region	Inventory name	On inventory (yes/no)*	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes	
Canada	Domestic Substances List (DSL)	No	
Canada	Non-Domestic Substances List (NDSL)	Yes	

sds Us 8 / 9

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	12-16-2014
Revision date	10-10-2017
Prepared by	Allison Yoon
Version #	02
Further information	CRC # 697/1002744
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
NFPA ratings	
Disclaimer	The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries, Inc
Revision Information	This document has undergone significant changes and should be reviewed in its entirety.

# Safety Data Sheet

# BAUSCH+LOMB

See better. Live better.

Section 1: Identification		
Product identifier		
Product Name	<ul> <li>Sight Savers brand Anti-Fog Liquid</li> </ul>	
Product Code	<ul> <li>143060; 25; 68; 69; 8563P; 8565; 8568P; 8569; 8570; FCP 4874</li> </ul>	
Product Description	Dilute solvent and surfactant solution.	
Relevant identified uses	of the substance or mixture and uses advised against	
Recommended use	Cleaning agent for glass and plastic lenses	
Details of the supplier of	the safety data sheet	
Manufacturer	Bausch & Lomb	
	1400 North Goodman Street Rochester, NY 14609 United States bausch.com	
Telephone (General)	• 1-800-553-5340	
Emergency telephone nu	mber	
Manufacturer	• 1-800-535-5053 - Infotrac	

## **Section 2: Hazard Identification**

#### UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# Classification of the substance or mixture

**UN GHS** 

 Acute Toxicity Oral 5 Eye Irritation 2A Flammable Liquids 3 Skin Irritation 2

Label elements

**UN GHS** 





Hazard statements •

Causes serious eye irritation May be harmful if swallowed Flammable liquid and vapour May cause skin irritation or dryness.

#### **Precautionary statements**

Prevention •	Keep away from heat, sparks, open flames and/or hot surfaces No smoking. Keep cool.
Response •	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
Storage/Disposal •	Store in a well-ventilated place. Keep cool. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Other hazards	
UN GHS •	No data available

#### Other information

 Moist white paper tissue impregnated with a dilute solvent and detergent. May cause serious eye irritation. May cause skin irritation or dryness. Ingestion may cause gastric and intestinal irritation.

## Section 3 - Composition/Information on Ingredients

#### **Substances**

Material does not meet the criteria of a substance according to United Nations
 Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## Mixtures

Composition			
Chemical Name	Identifiers	%	Classifications According to Regulation/Directive
Calcomine Brilliant Violet	CAS:2586-60-9	< 0.1%	UN GHS: NDA
Dipropylene glycol monomethyl ether	CAS:34590-94-8 EINECS:252-104-2	2%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Flam. Liq. 4
Isopropyl alcohol	CAS:67-63-0 UN:UN1219 EINECS:200-661-7	12%	UN GHS: Eye Irrit. 2A
Perfume (Kew Em Balsam Pine)	NDA	< 0.1%	UN GHS: NDA
Perfume (Oil Evergreen Bouquet)	NDA	< 0.1%	UN GHS: NDA
Silicone	CAS:68037-64-9	1% TO 5%	UN GHS: NDA
Sodium Lauryl Sulfate	CAS:151-21-3 EINECS:205-788-1	1% TO 5%	UN GHS: NDA
Water	CAS:7732-18-5 EINECS:231-791-2	> 80%	UN GHS: Classification criteria not met

#### **Section 4: First-Aid Measures**

#### Description of first aid measures

#### Inhalation

 Normal use of this product does not pose an inhalation hazard. However, should respiratory tract irritation develop, discontinue use and remove to fresh air. Get medical attention if irritation or other symptoms develop or persist.

Skin

Eye

- Should irritation develop, discontinue use. Wash affected skin thoroughly with soap and water. Get medical attention if irritation or other symptoms develop or persist.
- · Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get

Ingestion

medical attention.

- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

# Most important symptoms and effects, both acute and delayed

· No data available

# Indication of any immediate medical attention and special treatment needed

Notes to Physician · Material if ingested may be aspirated into the lungs and can cause chemical pneumonitis. Treat appropriately.

# Section 5: Fire-Fighting Measures

# Extinguishing media

Suitable Extinguishing Media	a •	Carbon dioxide, dry chemical powder, appropriate foam or water fog.	
Unsuitable Extinguishing Media	•	No data available	
Special hazards arising from the substance or mixture			
Unusual Fire and Explosion Hazards	•	No data available	
Hazardous Combustion Products	•	During a fire, thermal decomposition or combustion may generate irritating and highly toxic gases.	
Advice for firefighters			
	•	As in any fire, wear self-contained breathing apparatus and full protective gear to	

## Section 6 - Accidental Release Measures

# Personal precautions, protective equipment and emergency procedures

prevent contact with skin and eyes.

r croonar precuations,	protociare equipment and emergency procedures
Personal Precautions	<ul> <li>Wear suitable protective eyewear, clothing, respiratory protection, rubber boots and rubber gloves. Shut off all sources of ignition. Evacuate immediate area. Ensure adequate ventilation. Refer to Sections 7 and 8.</li> </ul>
Emergency Procedures	No data available
Environmental precau	tions

 Prevent spilled material from entering storm sewers or drains, waterways, and contact with soil.

# Methods and material for containment and cleaning up

Containment/Clean-up Isolate hazard area. Prevent from entering drains and sewers. Cover with vermiculite or other suitable inert material, pick up and place in closed containers. Transport Measures outdoors and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. Refer to Section 13 for appropriate disposal procedures.

# Section 7 - Handling and Storage

# Precautions for safe handling

Handling · Keep away from heat and sparks.

# Conditions for safe storage, including any incompatibilities

Storage

Store product at room temperature, in a well ventilated area away from heat, sparks or flames. Discard appropriately if package integrity is compromised.

# Section 8 - Exposure Controls/Personal Protection

Format: GHS Language: English (US) UN GHS

# Control parameters

#### Exposure Limits/Guidelines

•	Refer to the occupational exposure limits / guidelines for the individual product
	components.

Exposure Limits/Guidelines					
	Result	ACGIH	Canada Quebec	NIOSH	OSHA
Dipropylene glycol	STELs	150 ppm STEL	150 ppm STEV; 909 mg/m3 STEV	150 ppm STEL; 900 mg/m3 STEL	Not established
monomethyl ether (34590-94-8)	TWAs	100 ppm TWA	100 ppm TWAEV; 606 mg/m3 TWAEV	100 ppm TWA; 600 mg/m3 TWA	100 ppm TWA; 600 mg/m3 TWA
Isopropyl alcohol	STELs	400 ppm STEL	500 ppm STEV; 1230 mg/m3 STEV	500 ppm STEL; 1225 mg/m3 STEL	Not established
(67-63-0)	TWAs	200 ppm TWA	400 ppm TWAEV; 985 mg/m3 TWAEV	400 ppm TWA; 980 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA

#### **Exposure Control Notations**

#### Canada Quebec

•Dipropylene glycol monomethyl ether (34590-94-8): Skin: (Skin designation)

ACGIH

•Isopropyl alcohol (67-63-0): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen)

•Dipropylene glycol monomethyl ether (34590-94-8): Skin: (Skin - potential significant contribution to overall exposure by the cutaneous route)

# Exposure controls • No special controls are required under conditions of intended use. Measures/Controls • No special controls are required under conditions of intended use. Personal Protective Equipment • No special controls or personal protection required under conditions of intended use. Respiratory • No special controls or personal protection required under conditions of intended use. In the event of a bulk spill, and where risk assessment shows that air-purifying respirators are appropriate, a NIOSH (US) or CEN (EU) -certified air-purifying respirator equipped with organic vapor cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits,

	when adequate oxygen is present and as a backup to engineering controls. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release or any other circumstances where air purifying respirators may not provide adequate protection.
Eye/Face	<ul> <li>Avoid contact with the eye. No special controls or personal protection required under conditions of intended use. In the event of a bulk spill, appropriate eye protection should be worn.</li> </ul>
Hands	<ul> <li>No special personal protection required under conditions of intended use. In the event of a bulk spill, protective rubber gloves should be worn.</li> </ul>
Skin/Body	<ul> <li>No special personal protection required under conditions of intended use. In the event of a bulk spill, wear appropriate protective clothing.</li> </ul>
Environmental Exposure Controls	No data available

# **Section 9 - Physical and Chemical Properties**

#### Information on Physical and Chemical Properties

Material Description				
Physical Form	Liquid	Color	Purple	
Odor	Mild alcohol odor.			
General Properties				

Boiling Point	100 C(212 F)	Melting Point/Freezing Point	Not applicable
Decomposition Temperature	No data available	pН	7
Specific Gravity/Relative Density	= 1 Water=1	Water Solubility	Soluble
Viscosity	No data available		
Volatility			
Vapor Pressure	30 mmHg (torr) @ 77 F(25 C)		
Flammability			
Flash Point	40.6 C(105.08 F) CC (Closed Cup)		
Environmental	3	3	
Octanol/Water Partition coefficient	No data available		

# Section 10: Stability and Reactivity Reactivity • No dangerous reactions known. Chemical stability • Stable under normal temperatures and pressures.

## Possibility of hazardous reactions

Conditions to avoid

• No data available.

· Heat, sources of ignition.

# Incompatible materials

Caustics, strong acids, alkanolamines, strong oxidizing agents, and chlorinated compounds.

# Hazardous decomposition products

• None known.

# Section 11 - Toxicological Information

## Information on toxicological effects

	Components				
Water (> 80%)	7732- 18-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • >90 mL/kg			
Isopropyl alcohol (12%)	67-63-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5045 mg/kg; <i>Behavioral</i> :Altered sleep time (including change in righting reflex); <i>Behavioral</i> :Somnolence (general depressed activity); Inhalation-Rat LC50 • 16000 ppm 8 Hour(s); Skin-Rabbit LD50 • 12800 mg/kg; Irritation: Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg • Mild irritation			
Dipropylene glycol monomethyl ether (2%)	34590- 94-8	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5.5 mL/kg; Skin-Rabbit LD50 • 10 mL/kg; Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation			

GHS Properties	Classification	
Respiratory sensitization	UN GHS • Classification criteria not met	
Serious eye damage/Irritation	UN GHS • Eye Irritation 2A	

Acute toxicity	UN GHS • Acute Toxicity - Oral 5
Aspiration Hazard	UN GHS • Classification criteria not met
Carcinogenicity	UN GHS • Classification criteria not met
Skin corrosion/Irritation	UN GHS • Skin Irritation 2
Skin sensitization	UN GHS • Classification criteria not met
STOT-RE	UN GHS • Classification criteria not met
STOT-SE	UN GHS • Classification criteria not met
Toxicity for Reproduction	UN GHS • Classification criteria not met
Germ Cell Mutagenicity	UN GHS • Classification criteria not met

# Potential Health Effects

	Carcinogenic Effects
Chronic (Delayed)	Under normal conditions of use, no health effects are expected.
Acute (Immediate)	May cause irritation.
Ingestion	
Chronic (Delayed)	<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
Acute (Immediate)	Causes serious eye irritation.
Eye	
Chronic (Delayed)	<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
Acute (Immediate)	May cause irritation.
Skin	
Chronic (Delayed)	<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
Acute (Immediate)	May cause irritation.
Inhalation	

Carcinogenic Enects			
CAS IARC			
Isopropyl alcohol	67-63-0	Group 3-Not Classifiable	

# Section 12 - Ecological Information

Section [•]	13 - Dis	posal Con	siderations
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# Waste treatment methods

#### **Product waste**

• Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

# **Section 14 - Transport Information**

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	ID8000	Consumer Commodity	9	NDA	NDA
TDG	UN1987	Alcohols, n.o.s. (Isopropanol)	3	III	NDA
IMO/IMDG	UN1987	Alcohols, n.o.s. (Isopropanol)	3	III	NDA
ΙΑΤΑ/ΙCΑΟ	ID8000	Consumer Commodity	9	NDA	NDA

Special precautions for user . No data available

Transport in bulk according<br/>to Annex II of MARPOL 73/78<br/>and the IBC CodeNo data availableOther informationDOT • Product code 69 is not packaged for air transport.<br/>TDG • Ship as Limited Quantity.

- **IMO/IMDG** Ship as Limited Quantity.
- IATA/ICAO · Product code 69 is not packaged for air transport.

# **Section 15 - Regulatory Information**

# Safety, health and environmental regulations/legislation specific for the substance or mixture

#### SARA Hazard Classifications • No data available

Inventory				
Component	CAS	Canada DSL	EU EINECS	TSCA
Calcomine Brilliant Violet	2586-60-9	No	No	No
Silicone	68037-64-9	Yes	No	Yes
Dipropylene glycol monomethyl ether	34590-94-8	Yes	Yes	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes
Sodium Lauryl Sulfate	151-21-3	Yes	Yes	Yes
Water	7732-18-5	Yes	Yes	Yes

#### Canada

abor Canada - WHMIS - Classifications of Substances		
Silicone	68037-64-9	Not Listed
Dipropylene glycol monomethyl ether	34590-94-8	B3
Isopropyl alcohol	67-63-0	B2, D2B (including 70%)
		Uncontrolled product
• Water	7732-18-5	according to WHMIS

Format: GHS Language: English (US) UN GHS

	classification criteria
2586-60-9	Not Listed
151-21-3	D2B
68037-64-9	Not Listed
34590-94-8	1 %
67-63-0	1 %
7732-18-5	Not Listed
2586-60-9	Not Listed
151-21-3	1 %
	151-21-3 68037-64-9 34590-94-8 67-63-0 7732-18-5 2586-60-9

# Europe

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
• Silicone	68037-64-9	Not Listed
<ul> <li>Dipropylene glycol monomethyl ether</li> </ul>	34590-94-8	Not Listed
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	F; R11 Xi; R36 R67
• Water	7732-18-5	Not Listed
Calcomine Brilliant Violet	2586-60-9	Not Listed
Sodium Lauryl Sulfate	151-21-3	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
• Silicone	68037-64-9	Not Listed
Dipropylene glycol monomethyl ether	34590-94-8	Not Listed
Isopropyl alcohol	67-63-0	F Xi R:11-36-67 S:(2)-7-16 24/25-26
• Water	7732-18-5	Not Listed
Calcomine Brilliant Violet	2586-60-9	Not Listed
Sodium Lauryl Sulfate	151-21-3	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Silicone	68037-64-9	Not Listed
Dipropylene glycol monomethyl ether	34590-94-8	Not Listed
Isopropyl alcohol	67-63-0	S:(2)-7-16-24/25-26
• Water	7732-18-5	Not Listed
Calcomine Brilliant Violet	2586-60-9	Not Listed
Sodium Lauryl Sulfate	151-21-3	Not Listed

# **United States**

U.S CERCLA/SARA - Hazardous Substances and their Repo		Not Listed
Silicone	68037-64-9	Not Listed
<ul> <li>Dipropylene glycol monomethyl ether</li> </ul>	34590-94-8	Not Listed
Isopropyl alcohol	67-63-0	Not Listed
Water	7732-18-5	Not Listed
Calcomine Brilliant Violet	2586-60-9	Not Listed
Sodium Lauryl Sulfate	151-21-3	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Silicone	68037-64-9	Not Listed
<ul> <li>Dipropylene glycol monomethyl ether</li> </ul>	34590-94-8	Not Listed
		1.0 % de minimis

Format: GHS Language: English (US) UN GHS

Isopropyl alcohol	67-63-0	concentration (only if manufactured by the strong acid process, no supplier notification)
Water	7732-18-5	Not Listed
Calcomine Brilliant Violet	2586-60-9	Not Listed
Sodium Lauryl Sulfate	151-21-3	Not Listed

# **United States - California**

J.S California - Proposition 65 - Carcinogens List		
Silicone	68037-64-9	Not Listed
<ul> <li>Dipropylene glycol monomethyl ether</li> </ul>	34590-94-8	Not Listed
Isopropyl alcohol	67-63-0	Not Listed
• Water	7732-18-5	Not Listed
Calcomine Brilliant Violet	2586-60-9	Not Listed
Sodium Lauryl Sulfate	151-21-3	Not Listed
J.S California - Proposition 65 - Developmental Toxicity		
• Silicone	68037-64-9	Not Listed
<ul> <li>Dipropylene glycol monomethyl ether</li> </ul>	34590-94-8	Not Listed
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	Not Listed
• Water	7732-18-5	Not Listed
Calcomine Brilliant Violet	2586-60-9	Not Listed
Sodium Lauryl Sulfate	151-21-3	Not Listed
J.S California - Proposition 65 - Reproductive Toxicity - Female		
• Silicone	68037-64-9	Not Listed
Dipropylene glycol monomethyl ether	34590-94-8	Not Listed
Isopropyl alcohol	67-63-0	Not Listed
• Water	7732-18-5	Not Listed
Calcomine Brilliant Violet	2586-60-9	Not Listed
Sodium Lauryl Sulfate	151-21-3	Not Listed
J.S California - Proposition 65 - Reproductive Toxicity - Male		
• Silicone	68037-64-9	Not Listed
<ul> <li>Dipropylene glycol monomethyl ether</li> </ul>	34590-94-8	Not Listed
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	Not Listed
• Water	7732-18-5	Not Listed
	2586-60-9	Not Listed

Section 16 - Other Information		
Revision Date	11/September/2015	
Last Revision Date	• 06/May/2015	
Preparation Date	• 06/May/2015	
Disclaimer/Statement of Liability	<ul> <li>To the best of our knowledge, the information contained herein is accurate. However, neither Bausch &amp; Lomb Incorporated nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.</li> </ul>	

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# **PB Penetrating Catalyst**

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 Date of issue: 11/09/2016 Revision date: 06/26/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product name	: PB Penetrating Catalyst
Product code	: 16-PB, 8-PB, 8-PBS, PB-TS, 20-PB, 26-PB
	bstance or mixture and uses advised against
Use of the substance/mixture	: Penetrant
1.3. Details of the supplier of the safet	ty data sheet
Manufacturer The Blaster Corporation 8500 Sweet Valley Drive Valley View, Ohio 44125 - USA T (216) 901-5800 - F (216) 901-5801 www.blastercorp.com	
1.4. Emergency telephone number	
Emergency number	: ChemTel 800-255-3924
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance or	
GHS-US classification Flam. Aerosol 2 Dissolved gas Asp. Tox. 1	
2.2. Label elements	
GHS-US labelling Hazard pictograms (GHS-US)	HS02 GHS04 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: Flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways.
Precautionary statements (GHS-US)	: Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Store locked up. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local, regional, national and/or international regulation.
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/informat	ion on ingredients
3.1. Substances	
Not applicable	

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Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

3.2. Mixtures		
Name	Product identifier	%
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	50 - 60
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	20 - 30
Distillates, petroleum, hydrotreated heavy naphthenic	(CAS No) 64742-52-5	20 - 30
Carbon dioxide	(CAS No) 124-38-9	1 - 4

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation :	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact :	If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact :	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Direct contact with the eyes is likely to be irritating.
First-aid measures after ingestion :	IF SWALLOWED: immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/injuries after inhalation :	May cause respiratory tract irritation.
Symptoms/injuries after skin contact :	May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact :	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion :	May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Carbon dioxide, dry chemical, halons or foam.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the sub	ostance or mixture	
Fire hazard	: Flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon and oxides of nitrogen.	
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.	
Reactivity	: No dangerous reaction known under conditions of normal use.	
5.3. Advice for firefighters		
Firefighting instructions	: DO NOT fight fire when fire reaches explosives. Evacuate area. Exercise caution when fighting any chemical fire.	
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective	Personal precautions, protective equipment and emergency procedures	
General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.	
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.	
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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Emerge	ency procedures	: Ventilate area.
6.2.	Environmental precautions	
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.		
6.3.	Methods and material for cor	itainment and cleaning up
For con	tainment	<ul> <li>Eliminate sources of ignition. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).</li> </ul>
Method	s for cleaning up	: Scoop up material and place in a disposal container. Provide ventilation.
6.4.	Reference to other sections	
See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.		

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling :	Do not spray on an open flame or other ignition source. Keep away from sources of ignition - No smoking. Use non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharge. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas, fumes, vapour or spray. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Do not pierce or burn, even after use.
Hygiene measures	Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures	Proper grounding procedures to avoid static electricity should be followed.
Storage conditions :	Keep locked up and out of reach of children. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store away from direct sunlight or other heat sources. Keep in fireproof place.
Storage area	Store in a well-ventilated place.

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
Petroleum distillates, hydrotreated light (64742-47-8)		
Not applicable		
Solvent naphtha, petrole	um, heavy aromatic (64742-94-5)	
Not applicable		
Distillates, petroleum, hy	drotreated heavy naphthenic (64742-52-5)	
Not applicable		
Carbon dioxide (124-38-9		
ACGIH	ACGIH TWA (ppm)	5000 ppm
ACGIH	ACGIH STEL (ppm)	30000 ppm
OSHA	OSHA PEL (TWA) (mg/m ³ )	9000 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	5000 ppm
3.2. Exposure contro		
Appropriate engineering cor	ttrols : Use ventilation adequate recommended exposure	to keep exposures (airborne levels of dust, fume, vapor, etc.) below imits.
Hand protection	: Wear chemically resistan	protective gloves.

: Wear chemically resistant protective gloves.
: Safety glasses or goggles are recommended when using product.
: Wear suitable protective clothing.
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
: Maintain levels below Community environmental protection thresholds.
: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

according to the Hazard Communication Standard (CFR	
SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and o	chemical properties
Physical state	: Liquid
Appearance	: Clear. Aerosol.
Colour	: Orange
Odour	: Characteristic
Odour threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 356 °F (180 °C)
Flash point	: > 141 °F (> 61 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Flammable aerosol.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.9
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
9.2. Other information	
Heat of Combustion	: 45.8 kJ/g
Flame Projection	: 0 inches
Flashback	: None
SECTION 10: Stability and reactivity	

#### 10.1. Reactivity

10.3.

10.6.

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

Stable under normal storage conditions. Flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

#### No dangerous reaction known under conditions of normal use.

Possibility of hazardous reactions

#### 10.4. Conditions to avoid

Sources of ignition. Heat. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

#### Hazardous decomposition products

May include, and are not limited to: oxides of carbon and oxides of nitrogen.

#### **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Acute toxicity

: Not classified.

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PB Penetreating Catalyst	
LD50 oral rat	> 2000 mg/kg (Calculated Acute Toxicity Estimate)
LD50 dermal rabbit	> 2000 mg/kg (Calculated Acute Toxicity Estimate)
LC50 inhalation rat	> 5 mg/l/4h (Calculated Acute Toxicity Estimate)
Petroleum distillates, hydrotreated light (64	742-47-8)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 5.2 mg/l/4h
Solvent naphtha, petroleum, heavy aromatic	c (64742-94-5)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2 ml/kg
LC50 inhalation rat	> 590 mg/m ³ (Exposure time: 4 h)
Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
Specific target organ toxicity (single exposure)	: Not classified.
Specific target organ toxicity (repeated exposure)	: Not classified.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general : May cause long-term adverse effects in the aquatic environment.		
Petroleum distillates, hydrotreated light (6474	2-47-8)	
LC50 fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
LC50 fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
Solvent naphtha, petroleum, heavy aromatic (64742-94-5)		
LC50 fish 1	19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	0.95 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 fish 2	2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)		
LC50 fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)	

12.2. Persistence and degradability		
PB Penetreating Catalyst		
Persistence and degradability	Not established.	

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PB Penetreating Catalyst	
Bioaccumulative potential	Not established.
Petroleum distillates, hydrotreated light	
BCF fish 1	61 - 159
Solvent naphtha, petroleum, heavy arom	
BCF fish 1	61 - 159
Partition coefficient n-octanol/water	2.9 - 6.1
Carbon dioxide (124-38-9)	
BCF fish 1	(no bioaccumulation)
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on the global warming	: No known effects from this product.
Other information	: Avoid release to the environment.
SECTION 12: Disposal considerat	iono
SECTION 13: Disposal considerat	10115
13.1. Waste treatment methods	. This material must be dispared of in accordance with all least state provincial and federal
Waste disposal recommendations	This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.
Additional information	: Flammable vapours may accumulate in the container.
SECTION 14: Transport information	DN
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1950 Aerosols (flammable, (each not exceeding 1 L capacity)), 2.1
UN-No.(DOT)	: UN1950
Proper Shipping Name (DOT)	: Aerosols
	flammable, (each not exceeding 1 L capacity)
Class (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT)	: 2.1 - Flammable gas
	$\bullet$
Other information	: No supplementary information available.
Special transport precautions	: Do not handle until all safety precautions have been read and understood.
SECTION 15: Regulatory informat	ion
15.1. US Federal regulations	
	evaluated from listing on the United States Environmental Destaction Assess: Taxia
All components of this product are listed, or Substances Control Act (TSCA) inventory.	excluded from listing, on the United States Environmental Protection Agency Toxic
15.2. International regulations	

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

NEXREG

EN (English)

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Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Naphthalene (91-20-3)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	5.8 µg/day

Carbon dioxide (124-38-9)
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information		
Date of issue	:	11/09/2016

Revision date	:	06/26/2017
Other information	:	None.

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There was a problem getting the SDS for -

Product Name: Propane CAS Number: 74-98-6 Manufacturer: Bakers Propane Inc. SDS Date: 2/29/2016

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

There was a problem getting the SDS for -

**Product Name:** Scotchkote Electrical Coating FD **CAS Number: Manufacturer:** 3M Electrical Markets Division **SDS Date:** 7/8/2014

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

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# Shell Morlina S3 BA 100

Version 1.3	Revision Date: 04/26/2018	SDS Number: 800001029316	
SECTION	1. IDENTIFICATION		
Produ	uct name	: Shell Morlina	S3 BA 100
Produ	uct code	: 001D7819	
Manu	afacturer or supplier	s details	
Manu	facturer/Supplier	: Shell Oil Pro PO Box 4427 Houston TX USA	
	Request	: (+1) 877-276-	7285
Custo	omer Service	:	
Emer	gency telephone nu	mber	
		: 877-504-9351	
Healt	h Information	: 877-242-7400	)
Paca	mmended use of the	chomical and rostr	ictions on uso
	mmended use		
SECTION	2. HAZARDS IDENT	IFICATION	

#### GHS classification in accordance with 29 CFR 1910.1200

Based on available data this substance / mixture does not meet the classification criteria.

GHS label elements Hazard pictograms	: No Hazard Symbol required
Signal word	: No signal word
Hazard statements	<ul> <li>PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.</li> </ul>
Precautionary statements	<ul> <li>Prevention: No precautionary phrases.</li> <li>Response: No precautionary phrases.</li> <li>Storage: No precautionary phrases.</li> <li>Disposal:</li> </ul>

Shell Morlina S3 BA 100

Version	Revision Date:	SDS Number:	Print Date: 04/27/2018
1.3	04/26/2018	800001029316	Date of last issue: 03/04/2016

No precautionary phrases.

#### Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

#### Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
N-phenyl-1-	N-1-	90-30-2	0.1 - 0.99
naphthylamine	naphthylaniline		

#### **SECTION 4. FIRST-AID MEASURES**

If inhaled	:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
In case of skin contact	:	Remove contaminated clothing. Flush exposed area with wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
In case of eye contact	:	Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
If swallowed	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and delayed	:	Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
Protection of first-aiders	:	When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
Indication of any immediate medical attention and special treatment needed	:	Treat symptomatically.

# Shell Morlina S3 BA 100

Version	Revision Date:	SDS Number:
1.3	04/26/2018	800001029316

Print Date: 04/27/2018 Date of last issue: 03/04/2016

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
		Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
Additional advice	:	For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of

## SAFETY DATA SHEET According to OSHA Hazard Communication Standard, 29 CFR 1910.1200 Shell Morlina S3 BA 100

VersionRevision Date:SDS Number:Print Date: 04/27/20181.304/26/2018800001029316Date of last issue: 03/04/2016

this Safety Data Sheet.

#### **SECTION 7. HANDLING AND STORAGE**

Technical measures	:	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Advice on safe handling	:	Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning mate- rials in order to prevent fires.
Avoidance of contact	:	Strong oxidising agents.
Product Transfer	:	This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.
Further information on stor- age stability	:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.
		Store at ambient temperature.
Packaging material	:	Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.
Container Advice	:	Polyethylene containers should not be exposed to high tem- peratures because of possible risk of distortion.

### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral		TWA (Inhal-	5 mg/m3	ACGIH
		able fraction)	-	

#### **Biological occupational exposure limits**

No biological limit allocated.

#### Monitoring Methods

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200 Shell Morlina S3 BA 100

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Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

Engineering measures	<ul> <li>The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations.</li> </ul>
	Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
	<ul> <li>General Information:</li> <li>Define procedures for safe handling and maintenance of controls.</li> <li>Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.</li> <li>Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.</li> <li>Drain down system prior to equipment break-in or maintenance.</li> <li>Retain drain downs in sealed storage pending disposal or subsequent recycle.</li> <li>Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.</li> <li>Practice good housekeeping.</li> </ul>

#### Personal protective equipment

Respiratory protection : No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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		tions to a leve select respira cific condition Check with re Where air-filte priate combin Select a filter	controls do not maintain airborne concentra- el which is adequate to protect worker health, tory protection equipment suitable for the spe- s of use and meeting relevant legislation. spiratory protective equipment suppliers. ering respirators are suitable, select an appro- ation of mask and filter. suitable for the combination of organic gases [Type A/Type P boiling point >65°C (149°F)].
	protection		
R	emarks	gloves approv US: F739) ma suitable chem gloves Suitab usage, e.g. fr sistance of glo glove supplie Personal hyg Gloves must gloves, hands cation of a no For continuou through time 480 minutes of short-term/sp recognize tha may not be av time maybe a and replacem a good predic dependent or Glove thickne	contact with the product may occur the use of yed to relevant standards (e.g. Europe: EN374, ade from the following materials may provide iical protection. PVC, neoprene or nitrile rubber ility and durability of a glove is dependent on equency and duration of contact, chemical re- ove material, dexterity. Always seek advice from rs. Contaminated gloves should be replaced. ene is a key element of effective hand care. only be worn on clean hands. After using a should be washed and dried thoroughly. Appli- n-perfumed moisturizer is recommended. Is contact we recommend gloves with break- of more than 240 minutes with preference for > where suitable gloves can be identified. For ash protection we recommend the same, but t suitable gloves offering this level of protection vailable and in this case a lower breakthrough cceptable so long as appropriate maintenance ent regimes are followed. Glove thickness is not tor of glove resistance to a chemical as it is the exact composition of the glove material. ss should be typically greater than 0.35 mm the glove make and model.
Eye p	protection		nandled such that it could be splashed into eyes, wear is recommended.
Skin	and body protection	work clothes.	n is not ordinarily required beyond standard ctice to wear chemical resistant gloves.
Prote	ective measures	•	ective equipment (PPE) should meet recom- nal standards. Check with PPE suppliers.
Therr	mal hazards	: Not applicable	9
Envi	ronmental exposure c	ontrols	
Gene	eral advice	vant environm	iate measures to fulfill the requirements of rele- nental protection legislation. Avoid contamination ment by following advice given in Chapter 6. If

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			charged to waste municipal or indu discharge to surf Local guidelines	ent undissolved material from being dis- e water. Waste water should be treated in a ustrial waste water treatment plant before face water. on emission limits for volatile substances ed for the discharge of exhaust air containing
SECTION	9. PHYSICAL AND CHE	EMIC	CAL PROPERTIE	ES
Appe	arance	:	Liquid at room t	emperature.
Colou	ir	:	amber	
Odou	r	:	Slight hydrocart	pon
Odou	r Threshold	:	Data not availat	ble
pН		:	Not applicable	
pour	point	:	-12 °C / 10 °F Method: ASTM	D5950
Initial range	boiling point and boiling	:	> 280 °C / 536 ° estimated value	
Flash	point	:	230 °C / 446 °F	
			Method: ASTM	D92 (COC)
Evap	oration rate	:	Data not availat	ble
Flam	mability (solid, gas)	:	Data not availat	ble
	r explosion limit / upper nability limit	:	Typical 10 %(V)	)
	r explosion limit / Lower nability limit	:	Typical 1 %(V)	
Vapo	ur pressure	:	< 0.5 Pa (20 °C	/ 68 °F)
			estimated value	e(S)
Relat	ive vapour density	:	> 1 estimated value	e(S)
Relat	ive density	:	0.880 (15 °C / 5	59 °F)
Densi	ity	:	880 kg/m3 (15.0 Method: Unspec	
	ility(ies) ater solubility	:	negligible	

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200 Shell Morlina S3 BA 100

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Sc	olubility in other solvents	:	Data not availabl	e
	on coefficient: n- ol/water	:	log Pow: > 6 (based on inform	ation on similar products)
Auto-	ignition temperature	:	> 320 °C / 608 °I	=
Deco	mposition temperature	:	Data not availabl	e
Visco Vis	sity scosity, dynamic	:	Data not availabl	e
Vi	scosity, kinematic	:	11.4 mm2/s (100	°C / 212 °F)
			Method: ASTM E	0445
			100 mm2/s (40.0	°C / 104.0 °F)
			Method: ASTM [	0445
Explo	sive properties	:	Not classified	
Oxidi	zing properties	:	Data not availabl	e
Cond	uctivity		This material is r	not expected to be a static accumulator.

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability	:	Stable.
Possibility of hazardous reac- tions	:	Reacts with strong oxidising agents.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Strong oxidising agents.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

### SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	Information given is based on data on the components and the toxicology of similar products.Unless indicated otherwise,
	the data presented is representative of the product as a
	whole, rather than for individual component(s).

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#### Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

#### Acute toxicity

#### Product:

Acute oral toxicity	:	LD50 (rat): > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

#### Product:

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

#### Serious eye damage/eye irritation

#### Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

#### Product:

Remarks: Not a skin sensitiser. Based on available data, the classification criteria are not met.

#### Components:

#### N-phenyl-1-naphthylamine:

Remarks: May cause an allergic skin reaction in sensitive individuals.

Remarks: Classified Skin Sensitiser Category 1B.

#### Germ cell mutagenicity

#### Product:

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

#### Carcinogenicity

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#### Product:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **Reproductive toxicity**

#### Product:

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

#### STOT - single exposure

#### Product:

Remarks: Based on available data, the classification criteria are not met.

#### STOT - repeated exposure

#### Product:

Remarks: Based on available data, the classification criteria are not met.

#### Aspiration toxicity

#### Product:

Not an aspiration hazard.

#### **Further information**

## Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

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Remarks: Slightly irritating to respiratory system.

### **SECTION 12. ECOLOGICAL INFORMATION**

Basis for assessment	:	Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity		
Product: Toxicity to fish (Acute toxici- ty)	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to algae (Acute tox- icity)	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available
Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data not available
Components:		
<b>N-phenyl-1-naphthylamine:</b> M-Factor (Acute aquatic tox- icity)	:	1
Persistence and degradabilit	ty	
Product:		

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Biode	egradability	:	Major constituen	adily biodegradable. ts are inherently biodegradable, but contains may persist in the environment.
Bioa	ccumulative potential			
<u>Prod</u> Bioad	l <u>uct:</u> ccumulation	:	Remarks: Contai cumulate.	ns components with the potential to bioac-
Mobi	ility in soil			
Prod	uct:			
Mobi	lity	:		under most environmental conditions. will adsorb to soil particles and will not be
			Remarks: Floats	on water.
Othe	r adverse effects			
Prod	luct:			
Addit matic	ional ecological infor- on	:	ozone creation p Product is a mixt	zone depletion potential, photochemical otential or global warming potential. ure of non-volatile components, which will not r in any significant quantities under normal
			Poorly soluble m Causes physical	ixture. fouling of aquatic organisms.
				not cause chronic toxicity to aquatic organ- ations less than 1 mg/l.

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	toxicity and physical properties	aste generator to determine the s of the material generated to assification and disposal meth- able regulations.
	Waste product should not be a ground water, or be disposed Waste, spills or used product	of into the environment.
Contaminated packaging	Dispose in accordance with pr	revailing regulations, preferably

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		the collector or Disposal should	collector or contractor. The competence of contractor should be established beforehand. I be in accordance with applicable regional, cal laws and regulations.
<b>Loca</b> Rema	I legislation arks		be in accordance with applicable regional, cal laws and regulations.

## **SECTION 14. TRANSPORT INFORMATION**

#### **National Regulations**

#### US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

#### International Regulations

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

#### Special precautions for user

Remarks

: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

#### **SECTION 15. REGULATORY INFORMATION**

#### EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Xylene, mixed isomers	1330-20-7	100	100 (F003)
Xylene, mixed isomers	1330-20-7	100	*
Naphthalene	91-20-3	100	*

*: Calculated RQ exceeds reasonably attainable upper limit., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA., The components with RQs are given for information.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **Clean Water Act**

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Xylene, mixed isomers	1330-20-7	0.0001 %
Naphthalene	91-20-3	0.0001 %

#### **US State Regulations**

#### California Prop. 65

WARNING: This product can expose you to chemicals including cumene, Naphthalene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:			
EINECS	:	All components listed or polymer exempt.	
TSCA	:	All components listed.	

DSL : All components listed.

#### **SECTION 16. OTHER INFORMATION**

#### Further information

NFPA Rating (Health, Fire, Reac- 0, 1, 0 tivity)

#### Full text of other abbreviations

ACGIH OSHA Z-1		USA. ACGIH Threshold Limit Values (TLV) USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA		8-hour, time-weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
Abbreviations and Acronyms	:	The standard abbreviations and acronyms used in this docu- ment can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
		ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances

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		BEL = Biologic BTEX = Benzic CAS = Chemic CEFIC = Europ CLP = Classifie COC = Clevela DIN = Deutsch DMEL = Derive DNEL = Derive DSL = Canada EC = European EC50 = Effectin ECETOC = Europe EINECS = The Chemical Subs EL50 = Effectin ENCS = Japar Inventory EWC = Europe GHS = Globalli Labelling of Ch IARC = Interna IC50 = Inhibito IL50 = Inhibito IL50 = Inhibito IMDG = Interna INV = Chinese IP346 = Institu determination of KECI = Korea LC50 = Lethal LD50 = Lethal LD50 = Lethal IL/EL/IL = Leth LD50 = Lethal MARPOL = Int Pollution From NOEC/NOEL = served Effect L OE_HPV = Oc PBT = Persiste PICCS = Philip Substances PNEC = Predia REACH = Reg Chemicals RID = Regulati gerous Goods SKIN_DES = S STEL = Short f	es Institut fur Normung ed Minimal Effect Level ed No Effect Level a Domestic Substance List in Commission ve Concentration fifty iropean Center on Ecotoxicology and Toxicolo- als been Chemicals Agency e European Inventory of Existing Commercial stances ve Loading fifty lese Existing and New Chemical Substances ean Waste Code y Harmonised System of Classification and hemicals ational Agency for Research on Cancer tional Air Transport Association ry Concentration fifty ry Level fifty ational Maritime Dangerous Goods Chemicals Inventory ute of Petroleum test method N° 346 for the of polycyclic aromatics DMSO-extractables Existing Chemicals Inventory Concentration fifty Dose fifty per cent. hal Loading/Effective Loading/Inhibitory loading Loading fifty ernational Convention for the Prevention of Ships = No Observed Effect Concentration / No Ob- evel cupational Exposure - High Production Volume ent, Bioaccumulative and Toxic opine Inventory of Chemicals and Chemical cted No Effect Concentration istration Evaluation And Authorisation Of

#### SAFETY DATA SHEET According to OSHA Hazard Communication Standard, 29 CFR 1910.1200 Shoul Morling S2 PA 100

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TSCA = US Toxic Substances Control Act TWA = Time-Weighted Average vPvB = very Persistent and very Bioaccumulative				
A verti	cal bar ( ) in the left ma	argir	indicates an amer	adment from the previous version.
	es of key data used to e the Safety Data	:	sources of inform Health Services,	are from, but not limited to, one or more ation (e.g. toxicological data from Shell material suppliers' data, CONCAWE, EU e, EC 1272 regulation, etc).

Revision Date	:	04/26/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

There was a problem getting the SDS for -

Product Name: Shell Morlina S4 B 320 CAS Number: Manufacturer: Shell Oil Products US SDS Date: 4/30/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

Shell Tellus S2 VX 68

Version 1.2	Revision Date: 04/30/2018	SDS Number: 800010026148	Print Date: 05/01/2018 Date of last issue: 04/30/2018
SECTION	1. IDENTIFICATION		
Produ	uct name	: Shell Tellus S2	VX 68
Produ	uct code	: 001F8434	
Manu	ufacturer or supplier	's details	
Manu	ufacturer/Supplier	: Shell Oil Prod PO Box 4427 Houston TX 77 USA	
	Request omer Service	: (+1) 877-276-7 :	285
Eme	rgency telephone nu	mber	
Spill		: 877-504-9351 : 877-242-7400	
Reco	ommended use of the	e chemical and restric	ctions on use
Reco	mmended use	: Hydraulic oil	
SECTION	2. HAZARDS IDENT	IFICATION	

#### GHS classification in accordance with 29 CFR 1910.1200

Based on available data this substance / mixture does not meet the classification criteria.

GHS label elements Hazard pictograms :	No Hazard Symbol required
Signal word	: No signal word
Hazard statements	<ul> <li>PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.</li> </ul>
Precautionary statements	Prevention: No precautionary phrases.
	Response: No precautionary phrases.
	<b>Storage:</b> No precautionary phrases.
	Disposal:

## SAFETY DATA SHEET According to OSHA Hazard Communication Standard, 29 CFR 1910.1200 Shell Tellus S2 VX 68

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No precautionary phrases.

#### Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

High-pressure injection under the skin may cause serious damage including local necrosis. Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

•

#### Chemical nature

Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

* contains one or more of the following CAS-numbers: 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69-9.

#### Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90

#### **SECTION 4. FIRST-AID MEASURES**

If inhaled	:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
In case of skin contact	:	Remove contaminated clothing. Flush exposed area with wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
		When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.
In case of eye contact	:	Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.

Shell Tellus S2 VX 68

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lí	f swallo	owed	:		tment is necessary unless large quantities wever, get medical advice.
а		portant symptoms ects, both acute and l	:	of black pustules a Ingestion may res Local necrosis is e	signs and symptoms may include formation and spots on the skin of exposed areas. ult in nausea, vomiting and/or diarrhoea. evidenced by delayed onset of pain and ew hours following injection.
F	Protecti	on of first-aiders	:		ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings.
n	nedica	on of any immediate attention and special nt needed	:	Treat symptomation	cally.
				vention and possil age and loss of fu Because entry wo ousness of the un determine the exte anaesthetics or ho can contribute to s surgical decompre eign material shou	ection injuries require prompt surgical inter- bly steroid therapy, to minimise tissue dam- nction. unds are small and do not reflect the seri- derlying damage, surgical exploration to ent of involvement may be necessary. Local of soaks should be avoided because they swelling, vasospasm and ischaemia. Prompt ession, debridement and evacuation of for- uld be performed under general anaesthet- oration is essential.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to

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relevant Standards (e.g. Europe: EN469).

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
		Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
Additional advice	:	For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of

this Safety Data Sheet.

#### **SECTION 7. HANDLING AND STORAGE**

Technical measures	:	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk as- sessment of local circumstances to help determine appropri- ate controls for safe handling, storage and disposal of this material.
Advice on safe handling	:	Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning mate- rials in order to prevent fires.
Avoidance of contact	:	Strong oxidising agents.
Product Transfer	:	This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.
Further information on stor-	:	Keep container tightly closed and in a cool, well-ventilated

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age st	ability			eled and closable containers.
Packa	ging material	:	Store at ambient Suitable material steel or high dens Unsuitable mater	For containers or container linings, use mild sity polyethylene.
Conta	iner Advice	:		tainers should not be exposed to high tem- e of possible risk of distortion.

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral		TWA (Inhal-	5 mg/m3	ACGIH
		able fraction)	-	

#### **Biological occupational exposure limits**

No biological limit allocated.

#### **Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

Engineering measures	:	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is

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		greater potential	for airborne concentrations to be generated.
		controls. Educate and trai measures releva product. Ensure appropria equipment used equipment, local Drain down syste nance. Retain drain dow subsequent recy Always observe washing hands a drinking, and/or s	es for safe handling and maintenance of n workers in the hazards and control ant to normal activities associated with this ate selection, testing and maintenance of to control exposure, e.g. personal protective exhaust ventilation. Em prior to equipment break-in or mainte- rns in sealed storage pending disposal or cle. good personal hygiene measures, such as after handling the material and before eating, smoking. Routinely wash work clothing and nent to remove contaminants. Discard con- ng and footwear that cannot be cleaned.
Pers	onal protective equipm	ent	
	biratory protection	: No respiratory pro- conditions of used In accordance we tions should be to If engineering contions to a level we select respiratory cific conditions of Check with respin Where air-filtering priate combinations Select a filter suit	rotection is ordinarily required under normal a, ith good industrial hygiene practices, precau- aken to avoid breathing of material. introls do not maintain airborne concentra- which is adequate to protect worker health, y protection equipment suitable for the spe- f use and meeting relevant legislation. ratory protective equipment suppliers. g respirators are suitable, select an appro- on of mask and filter. table for the combination of organic gases rpe A/Type P boiling point >65°C (149°F)].
	d protection lemarks	gloves approved US: F739) made suitable chemica gloves Suitability usage, e.g. frequ sistance of glove glove suppliers. Personal hygien Gloves must only gloves, hands sh cation of a non-p For continuous of	tact with the product may occur the use of to relevant standards (e.g. Europe: EN374, from the following materials may provide al protection. PVC, neoprene or nitrile rubber and durability of a glove is dependent on tency and duration of contact, chemical re- ematerial, dexterity. Always seek advice from Contaminated gloves should be replaced. e is a key element of effective hand care. y be worn on clean hands. After using nould be washed and dried thoroughly. Appli- perfumed moisturizer is recommended. contact we recommend gloves with break- nore than 240 minutes with preference for >

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			short-term/splash recognize that sui may not be availa time maybe accept and replacement a good predictor of dependent on the Glove thickness s	re suitable gloves can be identified. For protection we recommend the same, but table gloves offering this level of protection ble and in this case a lower breakthrough otable so long as appropriate maintenance regimes are followed. Glove thickness is not of glove resistance to a chemical as it is exact composition of the glove material. hould be typically greater than 0.35 mm glove make and model.
Eye pr	otection	:		lled such that it could be splashed into eyes, ar is recommended.
Skin a	nd body protection	:	work clothes.	not ordinarily required beyond standard to wear chemical resistant gloves.
Protec	tive measures	:		ve equipment (PPE) should meet recom- standards. Check with PPE suppliers.
Therm	al hazards	:	Not applicable	
Enviro	onmental exposure co	ontro	ols	

General advice : Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Colour	:	clear
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-30 °C / -22 °F Method: ISO 3016
Initial boiling point and boiling range	:	> 280 °C / 536 °F estimated value(s)

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	Flash po	pint	:	230 °C / 446 °F Method: ISO 259	)2
	Evapora	ation rate	:	Data not availabl	
	Flamma	bility (solid, gas)	:	Data not availabl	e
		xplosion limit / upper pility limit	:	Typical 10 %(V)	
		xplosion limit / Lower pility limit	:	Typical 1 %(V)	
	Vapour	pressure	:	< 0.5 Pa (20 °C /	′ 68 °F)
				estimated value(	s)
	Relative	vapour density	:	> 1 estimated value(	s)
	Relative	density	:	0.860 (15 °C / 59	∂°F)
	Density		:	860 kg/m3 (15.0 Method: ISO 121	
	Solubilit Wate	y(ies) er solubility	:	negligible	
	Solu	bility in other solvents	:	Data not availabl	e
	Partition octanol/	n coefficient: n- water	:	log Pow: > 6 (based on inform	ation on similar products)
	Auto-igr	nition temperature	:	> 320 °C / 608 °F	=
	Decomp	position temperature	:	Data not availabl	e
	Viscosit Visco	y osity, dynamic	:	Data not availabl	e
	Visco	osity, kinematic	:	68 mm2/s (40.0 °	°C / 104.0 °F)
				Method: ISO 310	)4
				10.5 mm2/s (100	) °C / 212 °F)
				Method: ISO 310	)4
	Explosiv	ve properties	:	Not classified	

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0	xidizing properties	:	Data not availab	e
C	Conductivity		This material is r	not expected to be a static accumulator.
SECTI	ON 10. STABILITY AND RI	EAC	ΤΙVITY	
R	eactivity	:		s not pose any further reactivity hazards in listed in the following sub-paragraph.
С	hemical stability	:	Stable.	
	ossibility of hazardous reac- ons	:	Reacts with strong oxidising agents.	
C	onditions to avoid	:	Extremes of tem	perature and direct sunlight.
In	compatible materials	:	Strong oxidising	agents.
	azardous decomposition oducts	:	No decompositio	n if stored and applied as directed.

## SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	:	Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise,
		the data presented is representative of the product as a whole, rather than for individual component(s).

#### Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

### Acute toxicity

#### Product:

<u>r rouuct.</u>	
Acute oral toxicity	<ul> <li>LD50 (rat): &gt; 5,000 mg/kg</li> <li>Remarks: Low toxicity:</li> <li>Based on available data, the classification criteria are not met.</li> </ul>
Acute inhalation toxicity	Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	<ul> <li>LD50 (Rabbit): &gt; 5,000 mg/kg</li> <li>Remarks: Low toxicity:</li> <li>Based on available data, the classification criteria are not met.</li> </ul>

## Skin corrosion/irritation

### Product:

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

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#### Serious eye damage/eye irritation

#### Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

#### Product:

Remarks: Not a skin sensitiser. Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

#### Product:

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

#### Carcinogenicity

#### Product:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive toxicity	
Product:	
	: Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

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#### STOT - single exposure

#### Product:

Remarks: Based on available data, the classification criteria are not met.

#### STOT - repeated exposure

#### Product:

Remarks: Based on available data, the classification criteria are not met.

#### **Aspiration toxicity**

#### Product:

Not an aspiration hazard.

#### **Further information**

#### Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

Remarks: Slightly irritating to respiratory system.

#### **SECTION 12. ECOLOGICAL INFORMATION**

Basis for assessment	:	Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity		
Product: Toxicity to fish (Acute toxici- ty)	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic:

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1910.1200 Shell Tellus S2 VX 68

Version Revision Date: SDS Number: Print Date: 05/01/2018 1.2 04/30/2018 800010026148 Date of last issue: 04/30/2018 Based on available data, the classification criteria are not met. Toxicity to algae (Acute toxicity) Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met. Toxicity to fish (Chronic tox-Remarks: Data not available icity) Toxicity to daphnia and other : Remarks: Data not available aquatic invertebrates (Chronic toxicity) Toxicity to microorganisms Remarks: Data not available : (Acute toxicity) Persistence and degradability Product: Biodegradability Remarks: Not readily biodegradable. Major constituents are inherently biodegradable, but contains components that may persist in the environment. **Bioaccumulative potential** Product: Bioaccumulation Remarks: Contains components with the potential to bioac-: cumulate. Mobility in soil **Product:** Mobility Remarks: Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile. Remarks: Floats on water. Other adverse effects Product: Additional ecological infor-Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential. mation Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use. Poorly soluble mixture. Causes physical fouling of aquatic organisms.

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Mineral oil does not cause chronic toxicity to aquatic organisms at concentrations less than 1 mg/l.

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	Recover or recycle if possible. It is the responsibility of the waste generator to determine toxicity and physical properties of the material generated determine the proper waste classification and disposal r ods in compliance with applicable regulations. Do not dispose into the environment, in drains or in wate courses	d to neth-
	Waste product should not be allowed to contaminate so ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.	il or
Contaminated packaging	Dispose in accordance with prevailing regulations, prefe to a recognized collector or contractor. The competence the collector or contractor should be established before Disposal should be in accordance with applicable region national, and local laws and regulations.	e of nand.
Local legislation		
Remarks	Disposal should be in accordance with applicable region national, and local laws and regulations.	nal,

### **SECTION 14. TRANSPORT INFORMATION**

### **National Regulations**

### US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

### **International Regulations**

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

### Special precautions for user

Remarks

: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

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### **SECTION 15. REGULATORY INFORMATION**

### EPCRA - Emergency Planning and Community Right-to-Know Act

*: This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **Clean Water Act**

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

### US State Regulations

### Pennsylvania Right To Know

Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
Zinc dialkyldithiophosphate	4259-15-8

### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **California List of Hazardous Substances**

Distillates (petroleum)	, solvent-dewaxed heavy paraffinic	64742-65-0
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The components of this product are reported in the following inventories:				
EINECS	:	All components listed or polymer exempt.		
TSCA	:	All components listed.		
DSL	:	All components listed.		

### **SECTION 16. OTHER INFORMATION**

### **Further information**

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NFPA Rating (Health, Fire, Reac- 0, 1, 0 tivity)

### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1 ACGIH / TWA	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants 8-hour, time-weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
Abbreviations and Acronyms	:	The standard abbreviations and acronyms used in this docu- ment can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
		ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International
		Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials
		BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service
		CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling
		COC = Cleveland Open-Cup
		DIN = Deutsches Institut fur Normung
		DMEL = Derived Minimal Effect Level
		DNEL = Derived No Effect Level DSL = Canada Domestic Substance List
		EC = European Commission
		EC50 = Effective Concentration fifty
		ECETOC = European Center on Ecotoxicology and Toxicolo- gy Of Chemicals
		ECHA = European Chemicals Agency
		EINECS = The European Inventory of Existing Commercial Chemical Substances EL50 = Effective Loading fifty
		ENCS = Japanese Existing and New Chemical Substances Inventory
		EWC = Éuropean Waste Code GHS = Globally Harmonised System of Classification and
		Labelling of Chemicals
		IARC = International Agency for Research on Cancer IATA = International Air Transport Association
		IC50 = Inhibitory Concentration fifty
		IL50 = Inhibitory Level fifty
		IMDG = International Maritime Dangerous Goods
		INV = Chinese Chemicals Inventory
		IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables
		KECI = Korea Existing Chemicals Inventory
		LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent.

## SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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		LL50 = Lethal Lo. MARPOL = Intern Pollution From SI NOEC/NOEL = N served Effect Lev OE_HPV = Occu PBT = Persistent PICCS = Philippin Substances PNEC = Predicte REACH = Regist Chemicals RID = Regulation gerous Goods by SKIN_DES = Ski STEL = Short tern TRA = Targeted TSCA = US Toxic TWA = Time-Wei	national Convention for the Prevention of hips lo Observed Effect Concentration / No Ob- rel pational Exposure - High Production Volume , Bioaccumulative and Toxic ne Inventory of Chemicals and Chemical d No Effect Concentration ration Evaluation And Authorisation Of s Relating to International Carriage of Dan- Rail n Designation m exposure limit Risk Assessment c Substances Control Act

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Sources of key data used to compile the Safety Data Sheet	:	The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).
Revision Date	:	04/30/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

There was a problem getting the SDS for -

Product Name: Shell Turbo Oil T 68 CAS Number: Manufacturer: Shell Oil Products US SDS Date: 6/12/2019

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again



Revision Date 09-Feb-2016

# SAFETY DATA SHEET

Version 2

	I. IDENTIFICATION		
Product identifier			
Product Name	120DA BELT DRESSING & CONDITIONER	12 OZ	AE
Other means of identification			
Product Code	80073		
Synonyms	None		
Recommended use of the chemical	and restrictions on use		
Recommended Use	Flammable Aerosol, Lubricant		
Uses advised against	No information available		
Details of the supplier of the safety	data sheet		
Manufacturer Address	Distributor		
ITW Permatex	ITW Permatex Canada		
6875 Parkland Blvd.	35 Brownridge Road, Unit 1		
Solon, OH 44139 USA	Halton Hills, ON Canada L7G 0C6		
	Telephone: (800) 924-6994		
Company Phone Number	1-87-Permatex		
	(877) 376-2839		
24 Hour Emergency Phone Number	Chem-Tel: 800-255-3924		
	International Emergency:		
	00+1+ 813-248-0585		
	Contract Number: MIS0003453		
E-mail address	mail@permatex.com		

### 2. HAZARDS IDENTIFICATION

1 IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

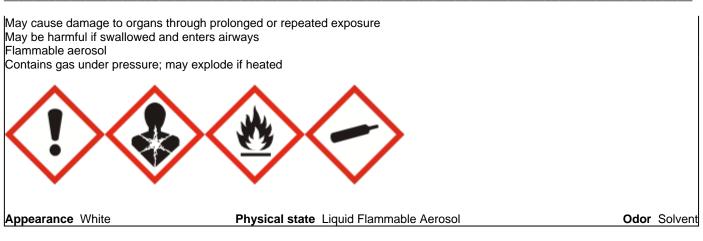
Skin corrosion/irritation	Category 3
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 2
Flammable aerosols	Category 2
Gases under pressure	Liquefied gas

### Label elements

**Emergency Overview** 

### Danger

Causes mild skin irritation Suspected of damaging fertility or the unborn child



### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat/sparks/open flames/hot surfaces. - No smoking Do not spray on an open flame or other ignition source Pressurized container: Do not pierce or burn, even after use

#### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see supplemental first aid instructions on this label)

If skin irritation occurs: Get medical advice/attention IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting

### Precautionary Statements - Storage

Store locked up Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

- The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1 % w/w 1,3-butadiene (EINECS No. 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the S-phrases (2-)9-16 (Table 3.2) should apply. This note applies only to certain complex oil-derived substances in Part 3

Unknown acute toxicity

5 % of the mixture consists of ingredient(s) of unknown toxicity

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
WATER	7732-18-5	60 - 100	*
N-HEXANE	110-54-3	7 - 13	*
PETROLEUM GASES, LIQUEFIED, SWEETENED	68476-86-8	3 - 7	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

### **Description of first aid measures**

Description of first and measures		
General advice	Get medical advice/attention if you feel unwell.	
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Skin contact	IF ON SKIN:. Wash skin with soap and water. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.	
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.	
Ingestion	IF SWALLOWED:. Call a physician or poison control center immediately. Do NOT induce vomiting.	
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.	
Most important symptoms and effe	ects, both acute and delayed	
Symptoms	See section 2 for more information.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians Treat symptomatically.		
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media Carbon dioxide (CO2), Dry chemical, Unsuitable extinguishing media None.	Foam	
Specific hazards arising from the c	<u>chemical</u> essure and can explode when exposed to heat or flames.	
Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	None. None.	
Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
	6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective e	quipment and emergency procedures	
Personal precautions	Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required. Remove all sources of ignition. Contents	
	under pressure. Do not puncture or incinerate cans.	

**Environmental precautions** Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological Information.

Methods and material for containment and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Advice on safe handling	Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required. Keep away from heat/sparks/open flames/hot surfaces No smoking. Contents under pressure. Do not puncture or incinerate cans.
Conditions for safe storage, including any incompatibilities	
Storage Conditions	Protect from sunlight. Do not expose to temperatures exceeding 50 $^{\circ}$ C/122 $^{\circ}$ F. Store locked up.
Incompatible materials	Strong oxidizing agents

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
N-HEXANE	TWA: 50 ppm	TWA: 500 ppm	IDLH: 1100 ppm
110-54-3	S*	TWA: 1800 mg/m ³	TWA: 50 ppm
		(vacated) TWA: 50 ppm	TWA: 180 mg/m ³
		(vacated) TWA: 180 mg/m ³	

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Appropriate engineering controls

Engineering Controls	Showers Eyewash stations Ventilation systems
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.
Respiratory protection	Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Appearance Odor Odor threshold

Property pН Melting point / freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility in other solvents **Partition coefficient** Autoignition temperature **Decomposition temperature** Kinematic viscosity Dynamic viscosity **Explosive properties Oxidizing properties** 

### **Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density Liquid; Flammable Aerosol White Solvent No information available

#### Values

No information available No information available > 38 °C / >100 °F No information available < 1 No information available

No information available No information available No information available >1 0.97 Soluble in water No information available No information available

No information available No information available 15% No information available No information available Remarks • Method

No flame projection Butyl acetate = 1

Air = 1

### **10. STABILITY AND REACTIVITY**

Reactivity No data available

<u>Chemical stability</u> Stable under recommended storage conditions

#### Possibility of Hazardous Reactions

None under normal processing.

<u>Conditions to avoid</u> Heat, flames and sparks. Temperatures >50 °C / 122 °F.

#### Incompatible materials Strong oxidizing agents

### Hazardous Decomposition Products

Carbon oxides

### **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye contact	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.
Skin contact	May cause skin irritation and/or dermatitis.
Ingestion	Harmful if swallowed. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
WATER	> 90 mL/kg (Rat)	-	-
7732-18-5			
N-HEXANE	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h
110-54-3			

#### Information on toxicological effects

Symptoms

No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity Carcinogenicity Target Organ Effects	No information available. No information available. No information available. Central nervous system, Eyes, Peripheral Nervous System (PNS), Respiratory system, Skin.
The following values are calculated	l based on chapter 3.1 of the GHS document .
ATEmix (oral)	250000 mg/kg
ATEmix (dermal)	30000 mg/kg
ATEmix (inhalation-vapor)	480000 mg/l

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

90 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
N-HEXANE	-	2.1 - 2.98: 96 h Pimephales	1000: 24 h Daphnia magna mg/L
110-54-3		promelas mg/L LC50 flow-through	EC50

#### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

#### Mobility

No information available.

Chemical Name	Partition coefficient
PETROLEUM GASES, LIQUEFIED, SWEETENED	<=2.8
68476-86-8	

#### Other adverse effects

No information available

### **13. DISPOSAL CONSIDERATIONS**

### Waste treatment methods

**Disposal of wastes** 

Disposal should be in accordance with applicable regional, national and local laws and

	regulations.
Contaminated packaging	Do not reuse container.
US EPA Waste Number	D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
N-HEXANE	Toxic
110-54-3	Ignitable

### **14. TRANSPORT INFORMATION**

DOT UN/ID no Proper shipping name: Hazard Class Emergency Response Guide Number	1950 Aerosols, Limited Quantity (LQ) 2.1 126
IATA UN/ID no Proper shipping name: Hazard Class ERG Code	ID 8000 Consumer commodity 9 9L

IMDG	
UN/ID no	1950
Proper shipping name:	Aerosols, Limited Quantity (LQ)
Hazard Class	2.1
EmS-No	F-D, S-U

### **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Not Listed.
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %		
N-HEXANE - 110-54-3	1.0		
SARA 311/312 Hazard Categories			
Acute health hazard	Yes		
Chronic Health Hazard	Yes		
Fire hazard	Yes		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
N-HEXANE	5000 lb	-	RQ 5000 lb final RQ
110-54-3			RQ 2270 kg final RQ

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

C	hemical Name	New Jersey	Massachusetts	Pennsylvania
	WATER	-	-	Х
	7732-18-5			
	N-HEXANE	X	Х	Х
	110-54-3			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### WHMIS Hazard Class

B5 - Flammable aerosol, D2B - Toxic materials

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 2	Flammability 3	Instability 0	-
HMIS	Health hazards 2	Flammability 3	Physical hazards 0	Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date 09-Feb-2016

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### End of Safety Data Sheet

There was a problem getting the SDS for -

**Product Name:** Tap Magic Xtra Thick **CAS Number: Manufacturer:** Steco Corporation **SDS Date:** 7/24/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

The document may be a secured document. Delete the existing record. Unsecure the document and upload again

There was a problem getting the SDS for -

**Product Name:** Zinc-It Instant Cold Galvanize **CAS Number: Manufacturer:** CRC Industries, Inc. **SDS Date:** 4/4/2018

To complete your binder, please upload a different SDS for this product or remove the SDS from your binder.

We are currently researching solutions to this issue. Thank you for your patience.

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