

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Polarshine 15

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Polishing agent

1.3. Supplier

Manufacturer: Mirka Ltd
Pensalavägen 210, 66850 Jeppo, Finland
Telephone: +358 20 760 2111
E-mail: sales@mirka.com

Suppliers: Mirka Canada Inc.
2755 Boulevard Pitfield
Saint Laurent
Quebec, H4S 1T2
Canada
Telephone: +1 855 234 6385

Mirka USA Inc.
2375 Edison Blvd.
Twinsburg, Ohio 44087
USA
Telephone: +1 330 963 6421

1.4. Emergency telephone number

Emergency number : For Chemical Emergency: spill, leak, fire, exposure or accident call CHEMTREC day or night:

Within USA and Canada: +1 800 424 9300
Outside USA and Canada: +1 703 527 3887 (collect calls accepted)
Multilingual response for emergency calls only. Non-emergency calls cannot be serviced at these numbers.

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 4 H227 Combustible liquid
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal word (GHS US) : Warning
Hazard statements (GHS US) : H227 - Combustible liquid
Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 - Wear eye protection, protective clothing, protective gloves.
P370+P378 - In case of fire: Use foam, Dry powder, Water spray, carbon dioxide (CO2) to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to an authorized waste collection point.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Repeated or prolonged contact may cause skin irritation. Repeated exposure may cause skin dryness or cracking. Skin contact may produce an allergic reaction in sensitive individuals.
Dried out product can release dust. High concentrations of dust may cause respiratory irritation.

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Contains <0.1% respirable Cryptocrystalline silica. Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Siliceous earth	(CAS-No.) 1020665-14-8	40 - 50	Not classified
Amorphous silica	(CAS-No.) 7631-86-9	40 - 50	Not classified
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	(CAS-No.) 64742-47-8	10 - 20	Asp. Tox. 1, H304
White mineral oil (petroleum)	(CAS-No.) 8042-47-5	5 - < 10	Asp. Tox. 1, H304
Glycerol	(CAS-No.) 56-81-5	3 - < 5	Not classified
Cryptocrystalline silica	(CAS-No.) 7631-86-9	< 0.1	Not classified
1,2-benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5	< 0.05	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Comb. Dust
Sodium hydroxide	(CAS-No.) 1310-73-2	< 0.1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, obtain medical attention.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : 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.
- First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Do not give an unconscious person anything to drink. If symptoms develop, obtain medical attention.

4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Repeated or prolonged contact may cause skin irritation. Repeated exposure may cause skin dryness or cracking. Skin contact may produce an allergic reaction in sensitive individuals. Dried out product can release dust. High concentrations of dust may cause respiratory irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Water spray. Carbon dioxide.
- Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

- Fire hazard : Combustible liquid and vapor. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.
- Explosion hazard : On heating : May form flammable/explosive vapor-air mixture.

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Hazardous decomposition products in case of fire : Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide.

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Keep upwind. Do not breathe fumes from fires or vapors from decomposition. Exercise caution when fighting any chemical fire.

Firefighting instructions : Move containers from fire area if you can do it without risk. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

Protection during firefighting : As in any fire, wear self-contained breathing apparatus and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid inhalation of dust from dried product.

6.1.1. For non-emergency personnel

Emergency procedures : Remove all sources of ignition. Ventilate area. Avoid inhalation of vapors. Avoid contact with skin and eyes. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. See Section 8.

Emergency procedures : Remove all sources of ignition. Ventilate area. Avoid inhalation of vapors. Avoid contact with skin and eyes.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak, if possible without risk. Dam up the liquid spill.

Methods for cleaning up : Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Dispose in a safe manner in accordance with local/national regulations. Wash spill area with soapy water.

Other information : Caution : this product can cause the floor to be slippery.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. The vapor is heavier than air, spreads along the ground and distant ignition is possible. Provide good ventilation in process area to prevent formation of vapor. Use solvent resistant equipment. Avoid contact with skin and eyes. Avoid inhalation of vapors. Avoid inhalation of dust from dried product.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Floors should be impervious, resistant to liquids and easy to clean. Do not allow material to contaminate ground water system. Keep in a cool, well-ventilated place, away from incompatible materials. Keep container tightly closed. Protect against frost. Do not allow product to dry out.

Incompatible materials : Oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glycerol (56-81-5)	
USA - OSHA - Occupational Exposure Limits	
Local name	Glycerin (mist)
OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction)

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Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
White mineral oil (petroleum) (8042-47-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined
ACGIH TWA (mg/m ³)	5 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2019
USA - OSHA - Occupational Exposure Limits	
Local name	Oil mist, mineral
OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ Mist
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
Manufacturer assigned exposure limit(s)	TWA: 1200 mg/m ³
Cryptocrystalline silica (7631-86-9)	
Manufacturer assigned exposure limit(s) (TWA)	<= 0.1 mg/m ³
Sodium hydroxide (1310-73-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Sodium hydroxide
ACGIH Ceiling (mg/m ³)	2 mg/m ³
Remark (ACGIH)	URT, eye, & skin irr
Regulatory reference	ACGIH 2019
USA - OSHA - Occupational Exposure Limits	
Local name	Sodium hydroxide
OSHA PEL (TWA) (mg/m ³)	2 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Amorphous silica (7631-86-9)	
USA - OSHA - Occupational Exposure Limits	
Local name	Amorphous, including natural diatomaceous earth
OSHA PEL (TWA) (ppm)	20 mppcf
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use formula: (80 mg/m ³ / (%SiO ₂)) for mg/m ³ . CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide adequate ventilation to minimize dust and/or vapor concentrations. Ensure exposure is below occupational exposure limits (where available). Local exhaust ventilation (LEV) may be required to control inhalation exposure.
- Environmental exposure controls : Avoid release to the environment. Ensure that the emission levels from local regulations or operating permits are not exceeded.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

In case of repeated or prolonged contact wear gloves. Splash contact: Nitrile rubber: Material thickness: > 0.4 mm, Breakthrough time : > 480 minutes. Full contact: butyl rubber: Material thickness: > 0.4 mm, Breakthrough time : > 480 minutes. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Eye protection:

If there is a risk of liquid being splashed : Safety glasses

Skin and body protection:

Long-sleeved protective clothing

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Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Short term exposure: Respiratory protective device with a combined gas and particle filter. Long term exposure: Wear a self contained breathing apparatus

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Paste.
Color	: Yellow Beige
Odor	: Mild
Odor threshold	: No data available
pH	: 7 – 8
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 149 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: ≈ 1.4 (Water = 1)
Specific gravity / density	: ≈ 1.4 g/ml
Solubility	: Water: Dispersible
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: > 20.5 mm ² /s (104 °F)
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: On heating : May form flammable/explosive vapor-air mixture.
Oxidizing properties	: Not oxidizing.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7). Combustible liquid.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

On heating : May form flammable/explosive vapor-air mixture. May react violently with oxidants.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not allow product to dry out.

10.5. Incompatible materials

Oxidizing agents.

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10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Glycerol (56-81-5)	
LD50 oral, rat	27200 mg/kg
LC50 inhalation, rat (mg/l)	> 2.75 mg/l - 4 Hours
White mineral oil (petroleum) (8042-47-5)	
LD50 oral, rat	> 5000 mg/kg
LD50 dermal, rabbit	> 2000 mg/kg
LC50 inhalation, rat (mg/l)	> 5 mg/l 4 Hours
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
LD50 oral, rat	> 5000 mg/kg (OECD 401 method), (Read-across)
LD50 dermal, rabbit	> 5000 mg/kg (OECD 403 method), (Read-across)
LC50 inhalation, rat (mg/l)	> 5000 mg/m ³ - 4 Hours, vapors (OECD 403 method), (Read-across)
1,2-benzisothiazol-3(2H)-one (2634-33-5)	
LD50 oral, rat	490 mg/kg body weight (OECD 401 method)
LD50 dermal, rat	> 2000 mg/kg body weight (OECD 402 method)
Amorphous silica (7631-86-9)	
LD50 oral, rat	> 5000 mg/kg body weight (OECD 401 method)
LC50 inhalation, rat (mg/l)	> 0.14 mg/l/4h (Dust), (OECD 403 method)
Skin corrosion/irritation	: Not classified pH: 7 – 8
Serious eye damage/irritation	: Not classified pH: 7 – 8
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Cryptocrystalline silica (7631-86-9)	
IARC group	3 - Not classifiable
Amorphous silica (7631-86-9)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: > 20.5 mm ² /s (40 °C)
Potential Adverse human health effects and symptoms	: Repeated or prolonged contact may cause skin irritation. Repeated exposure may cause skin dryness or cracking. Skin contact may produce an allergic reaction in sensitive individuals. Dried out product can release dust. High concentrations of dust may cause respiratory irritation.

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SECTION 12: Ecological information

12.1. Toxicity

Glycerol (56-81-5)	
LC50 fish	54000 mg/l - 96 Hours (Salmo gairdneri)
EC50 Daphnia	1955 mg/l - 48 Hours (Daphnia magna)
White mineral oil (petroleum) (8042-47-5)	
Additional ecotox information	LL50, fish, acute: > 10000 mg/l (96 Hours, Leuciscus idus melanotus, WAF (Water Accommodated Fraction) (OECD 203 method)) LL50, aquatic invertebrates, acute: > 100 mg/l (48 Hours, Daphnia magna, Mobility, WAF (Water Accommodated Fraction) (OECD 202 method))
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
Additional ecotox information	LL50, fish, acute: > 1000 mg/l (96 Hours, Oncorhynchus mykiss, WAF (Water Accommodated Fraction) (OECD 203 method)) NOELr, fish, Chronic: 0.173 mg/l (28 days, Oncorhynchus mykiss, Growth rate (QSAR)) LL50, aquatic invertebrates, acute: > 10000 mg/l (48 Hours, Chaetogammarus marinus, WAF (Water Accommodated Fraction)) LL50, aquatic invertebrates, acute: > 1000 mg/l (48 Hours, Daphnia magna, Mobility, WAF (Water Accommodated Fraction) (OECD 202 method)) NOELr, aquatic invertebrates, Chronic: 1.22 mg/l (21 days, Daphnia magna, reproduction (QSAR)) EL50, algae, acute: > 1000 mg/l (72 Hours, Pseudokirchneriella subcapitata, Growth rate/cell numbers (OECD 201 method)) NOELr, algae: 1000 mg/l (72 Hours, Pseudokirchneriella subcapitata, Growth rate/cell numbers (OECD 201 method))
Sodium hydroxide (1310-73-2)	
LC50 fish	35 – 189 mg/kg
EC50 Daphnia	40.4 mg/l - 48 Hours (Daphnia magna)
1,2-benzisothiazol-3(2H)-one (2634-33-5)	
LC50 fish	2.15 mg/l - 96 Hours (Onchorynchus mykiss), (OECD 203 method)
EC50 Daphnia	2.9 mg/l - 48 Hours (Daphnia magna), (OECD 202 method)
ErC50 (algae)	110 µg/L - 72 Hours (Pseudokirchneriella subcapitata), (OECD 201 method)
Additional ecotox information	NOEC, algae: 40.3 µg/l (72 Hours, Pseudokirchneriella subcapitata, Growth rate (OECD 201 method))
Amorphous silica (7631-86-9)	
LC50 fish	1033 mg/l - 96 Hours (Quantitative structure-activity relationship (QSAR))
EC50 Daphnia	512 mg/l - 48 Hours (Quantitative structure-activity relationship (QSAR))
NOEC chronic fish	57 mg/l - 30 days (Quantitative structure-activity relationship (QSAR))
NOEC chronic algae	42.1 mg/l - 30 days (Quantitative structure-activity relationship (QSAR))

12.2. Persistence and degradability

Polarshine 15	
Persistence and degradability	No information available.
Glycerol (56-81-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	94 % - 24 days
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
Persistence and degradability	Readily biodegradable, failing 10-d window.
Biodegradation	69 % - 28 days
1,2-benzisothiazol-3(2H)-one (2634-33-5)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

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Bioaccumulative potential	No information available.
Glycerol (56-81-5)	
Log Pow	-1.75 (25 °C), (OECD 107 method)

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White mineral oil (petroleum) (8042-47-5)	
BCF fish 1	0.4 – 10900 l/kg (20 °C, pH: 7), (QSAR)
Log Pow	4.3 – 18.02 (20 °C, pH: 7), (QSAR)

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
BCF fish 1	6.62 - 3 weeks (Lepomis macrochirus, Whole body), (OECD 305 method)
Log Pow	0.7 (20 °C, pH 7, EU method A.8)
Bioaccumulative potential	Not expected to bioaccumulate.

Amorphous silica (7631-86-9)	
Log Pow	0.53 (25 °C, pH 7), (Quantitative structure-activity relationship (QSAR))

12.4. Mobility in soil

Polarshine 15	
Ecology - soil	No information available.

White mineral oil (petroleum) (8042-47-5)	
Log Koc	3.58 – 14.7 (20 °C, pH: 7), (QSAR)

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
Log Koc	≈ 0.97 (25 °C), (OECD 121 method)
Ecology - soil	Soluble in water.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Polarshine 15	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids)

Glycerol (56-81-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

White mineral oil (petroleum) (8042-47-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Cryptocrystalline silica (7631-86-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Sodium hydroxide (1310-73-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CERCLA RQ	1000 lb
1,2-benzisothiazol-3(2H)-one (2634-33-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Siliceous earth (1020665-14-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Amorphous silica (7631-86-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

White mineral oil (petroleum) (8042-47-5)	
Listed on the Canadian DSL (Domestic Substances List)	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
Listed on the Canadian DSL (Domestic Substances List)	
Cryptocrystalline silica (7631-86-9)	
Listed on the Canadian DSL (Domestic Substances List)	
1,2-benzisothiazol-3(2H)-one (2634-33-5)	
Listed on the Canadian DSL (Domestic Substances List)	
Siliceous earth (1020665-14-8)	
Listed on the Canadian DSL (Domestic Substances List)	
Amorphous silica (7631-86-9)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Glycerol(56-81-5)	U.S. - New Jersey - Right to Know Hazardous Substance List
Cryptocrystalline silica(7631-86-9)	U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) List
Amorphous silica(7631-86-9)	U.S. - Pennsylvania - RTK (Right to Know) List
Sodium hydroxide(1310-73-2)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Indication of changes:			
Section	Changed item	Change	Comments
1	Identification of the substance/mixture and of the company/undertaking	Modified	
2	Hazards identification	Modified	
3	Composition/information on ingredients	Modified	
4	First aid measures	Modified	
5	Fire fighting measures	Modified	
6	Accidental release measures	Modified	
7	Handling and storage	Modified	
8	Exposure controls/personal protection	Modified	
9	Physical and chemical properties	Modified	
10	Stability and reactivity	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
13	Disposal considerations	Modified	
15	Regulatory information	Modified	
16	Other information	Modified	

Data sources : US OSHA HazCom (GHS) 25 May 2012.

Other information : None.

Full text of H-phrases:

H227	Combustible liquid
H290	May be corrosive to metals
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

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	ACGIH (American Conference of Government Industrial Hygienists)
	BCF (Bioconcentration Factor/Bioconcentration factor)
	CAS (Chemical Abstracts Service) number
	DOT (Department Of Transportation (US))
	EC50 (Effective Concentration 50%)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	OECD (Organisation for Economic Co-operation and Development)
	OSHA (Occupational Safety and Health Administration) (US)
	NIOSH (National Institute for Occupational Safety and Health)
	OEL (Occupational exposure limit)
	QSAR (Quantitative Structure-Activity Relationship)
	STEL (Short Term Exposure Limit)
	TSCA (Toxic Substances Control Act) (US)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)

NFPA health hazard

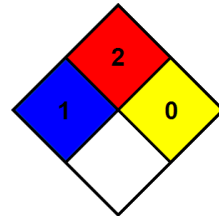
: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection

: E

E - Safety glasses, Gloves, Dust respirator

SDS US (GHS HazCom 2012)

Polarshine 15

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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