

Safety Data Sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing Date: December 29, 2022

Version No.: 1.0

Revision: December 29, 2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

• **1.1 Product identifier**

• **Trade name:**

Laundry Detergent Sheet

Other means of identification:

Registration number: No available data.

UFI code: No available data.

1.2 Relevant identified uses of the substance or mixture and uses advised against on

Application of the substance/ mixture:

Consumer uses, laundry detergent, used for clothes cleaning.

• **Uses advised against:**

No data available.

Reason why uses advised against:

No data available.

• **1.3 Details of the supplier of the safety data sheet**

• **Manufacturer/ Supplier:**

SmartProducts Canada Ltd.

Po Box 48116, Queensborough RPO, BC., New Westminster, V3M 0A7, Canada

Email: info@smartstrips.ca

National contact: Lillian O'Hara

• **Only Representative/other EU contact point:**

No information available.

Further information obtainable from:

SmartProducts Canada Ltd.

• **1.4 Emergency telephone number**

Tel: +1 778 269 4865

SECTION 2: Hazards identification

• **2.1 Classification of the substance or mixture**

• **2.1.1 Classification according to regulation (EC) 1272/2008:**

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Skin Irrit.2, H315	Additivity approach
Eye Dam. 1, H318	Additivity approach
STOT SE 3, H335	Additivity approach
Aquatic Chronic 3, H412	Summation method

• **2.1.2 Additional information:**

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

• **2.2 Label elements**

• **Labeling according to Regulation (EC) No 1272/2008:**

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The product is labelled according to CLP Regulation.

• Hazard pictograms:

GHS05 GHS07

• Signal word:

Danger

• Hazard-determining components of labelling:

Sodium Lauryl Sulfate

• Hazard statements:

- H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H412 Harmful to aquatic life with long lasting effects.

• Precautionary statement:

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read carefully and follow all instructions.
 P264 Wash hands and face thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves / eye protection/ face protection.
 P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

• Supplemental label elements:

Not applicable

• 2.3 Other hazardsNone of the ingredients ($\geq 0.1\%$) meets the criteria for PBT/vPvB in accordance with Annex XIII.None of the ingredients ($\geq 0.1\%$) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

• 3.1 Substance

Not applicable

• 3.2 Mixtures**• Description of the mixture:**

Laundry Detergent Sheet.

Ingredients:						
Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Sodium Lauryl Sulfate	151-21-3	-	205-788-1	15-45	Flam. Sol. 2, H228 Acute Tox. 4, H302 Skin Irrit. 2, H315	ATE (oral)= 1228 mg/kg

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					Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412	
Polyvinyl alcohol	9002-89-5	-	-	10-25	None	-
Water	7732-18-5	-	231-791-2	3-10	None	-
PEG-7 Glyceryl Cocoate	68201-46-7	-	-	1-10	None	-
Glycerin	56-81-5	-	200-289-5	1-10	None	-
Trisodium citrate	6132-04-3	-	-	1-5	None	-
Phenoxyethanol	122-99-6	603-098-00-9	204-589-7	0.5-1	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE (oral)=1394 mg/kg
Saponins, Quillaja saponaria	74499-23-3	-	-	0.1-1	None	-
Parfum	None	-	-	0.1-1	None	-

Additional information: Full text of H-statements, see SECTION 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General advice:

If medical advice is needed, have product container or label at hand.

After inhalation:

Remove person to fresh air and keep comfortable for breathing.

If you feel unwell, call a POISON CENTER/doctor.

After skin contact:

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

After swallowing:

Rinse mouth.

Call a POISON CENTER/doctor if you feel unwell.

· 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are as indicated in sections 2 and 11.

· 4.3 Indication of any immediate medical attention and special treatment needed:

Treatment according to symptoms, no known specific medicine.

SECTION 5: Fire-fighting measures

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• **5.1 Extinguishing media**

• **Suitable extinguishing agents:**

Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish.

• **Unsuitable extinguishing media:**

Water with full jet.

• **5.2 Special hazards arising from the substance or mixture:**

May produce corrosive dust in air under fire.

• **5.3 Advice for firefighters**

Protective equipment:

Wear an approved positive pressure self-contained breathing apparatus (Comply with EN 133).

SECTION 6: Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures**

• **6.1.1 For non-emergency personnel**

Protective equipment:

Wear protective gloves/eye protection/face protection and respiration protection.

Emergency procedures:

Ensure good ventilation.

Avoid breathing dust.

Avoid contact with skin and eyes.

Avoid release to the environment.

• **6.1.2 For emergency responders**

Personal protective equipment:

Wear Protective gloves / eye protection/ face protection and respiration protection.

• **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so.

Prevent spillage from entering drains, sewer, basement or confined areas.

If the spillage contaminates rivers, lakes or drains inform respective authorities.

• **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically with protective gloves.

Ensure good ventilation.

Dispose contaminated material as waste according to item 13.

• **6.4 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.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling:**

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Trade Name: Laundry Detergent Sheet*Read carefully and follow all instructions.**Ensure good ventilation/exhaustion at the workplace.**Avoid breathing dust.**Use only outdoors or in a well-ventilated area.**Use respiratory protective device against the effect of dust.**Avoid contact with skin and eyes.**Avoid release to the environment.***• Information about fire and explosion protection:***Normal measures for preventive fire protection.***• 7.2 Conditions for safe storage, including any non-compatibility****• Requirements to be met by storerooms and receptacles:***Store in a cool, dry and well-ventilation place.***• Information about storage in one common storage facility:***Keep out of reach of children.***• Further information about storage conditions:***Store locked up.***• Storage class:**

11.

• 7.3 Specific end use(s):*See section 1.2.***SECTION 8: Exposure controls/personal protection****• 8.1 Control parameters****• Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
56-81-5 Glycerin		
Belgium	10 mg/m ³	-
Finland	20 mg/m ³	-
France	10 mg/m ³	-
Germany (DFG)	200 mg/m ³ Inhalable fraction	400 mg/m ³ Inhalable fraction; 15 minutes average value
Ireland	10 mg/m ³	-
Poland	10 mg/m ³	-
Spain	10 mg/m ³	-
United Kingdom	10 mg/m ³	-
122-99-6 Phenoxyethanol		
Austria	20ppm; 110 mg/m ³	20ppm; 110 mg/m ³
Finland	20ppm; 110 mg/m ³	50ppm; 290 mg/m ³ 15 minutes average value
Germany (AGS)	20ppm; 110 mg/m ³ Inhalable aerosol and vapour	40ppm; 220 mg/m ³ Inhalable aerosol and vapour; 15 minutes reference period
Germany (DFG)	20ppm; 110 mg/m ³ Inhalable aerosol and vapour	40ppm; 220 mg/m ³ Inhalable aerosol and vapour; 15 minutes reference period
Poland	230mg/m ³	-

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Trade Name: Laundry Detergent Sheet**• DNELs:**

DNEL type		DNEL worker value	DNEL consumer value
151-21-3 Sodium Lauryl Sulfate			
Systemic effects	Long-term, inhalation exposure	285 mg/m ³	85 mg/m ³
	Long-term, dermal exposure	4060 mg/kg bw/day	2440 mg/kg bw/day
	Long-term, oral exposure	-	24 mg/kg bw/day
56-81-5 Glycerin			
Local Effects	Long-term, inhalation exposure	56 mg/m ³	33 mg/m ³
	Long-term, oral exposure	-	229 mg/kg bw/day
122-99-6 Phenoxyethanol			
Systemic Effects	Long-term, inhalation	5.7 mg/m ³	2.41 mg/m ³
	Long-term, dermal	20.83 mg/kg bw/day	10.42 mg/kg bw/day
	Long-term, oral	-	9.23 mg/kg bw/day
	Acute /short term, oral	-	9.23 mg/kg bw/day
Local Effects	Long-term, inhalation	5.7 mg/m ³	2.41 mg/m ³

• PNECs:

PNEC type	Value
151-21-3 Sodium Lauryl Sulfate	
Freshwater	176 µg/L
Intermittent releases (freshwater)	55 µg/L
Marine water	17.6 µg/L
Sewage treatment plant (STP)	1.35 mg/L
Sediment (freshwater)	6.97 mg/kg sediment dw
Sediment (marine water)	697 µg/kg sediment dw
56-81-5 Glycerin	
Freshwater	885 µg/L
Intermittent releases (freshwater)	8.85 mg/L
Marine water	88.5 µg/L
Sewage treatment plant (STP)	1 g/L
Sediment (freshwater)	3.3 mg/kg sediment dw
Sediment (marine water)	330 µg/kg sediment dw
122-99-6 Phenoxyethanol	
Freshwater	943 µg/L
Intermittent releases (freshwater)	3.44 mg/L
Marine water	94.3 µg/L
Sewage treatment plant (STP)	24.8 mg/L
Sediment (freshwater)	7.237 mg/kg sediment dw
Sediment (marine water)	723.7 µg/kg sediment dw
Soil	1.31 mg/kg soil dw

• Additional information:

The lists valid during the marking were used as basis.

• 8.2 Exposure controls

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• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and at the end of work.

Take off contaminated clothing and wash it before reuse.

See section 7 for information about design of technical facilities.

• **Personal protective equipment**

• **Eye and face protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



Safety glasses

Protective goggles with side-shields.

• **Skin protection**

• **Hand protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.3mm; breakthrough times up to 480 minutes).

• **Other skin protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



Face protection



Safety boots



Safety overalls

Face shield, gauntlets, boots, bodysuit are recommended.

• **Respiration protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



Respiratory equipment

Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

• **Thermal hazards:**

Not required under normal conditions of use.

For industrial applications, following protection required:

The gauntlets, boots, bodysuit and other personal protective equipment must be flame retardant and no heat-conducting.

• **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· Physical state	Solid
· Color	White
· Odor & Odor threshold	Odorless
· Melting point/freezing point (or softening point/range)	Not determined
· Boiling point or initial boiling point and boiling range	100°C (water)
· Flammability	Not flammable solid
· Lower and upper explosion limit	Not determined
· Flash point	170°C (Sodium Lauryl Sulfate)
· Auto-ignition temperature	Not determined
· Decomposition temperature	Not determined
· pH	8-10 (20°C, 10% water solution)
· Kinematic viscosity (mm ² /s)	Not applicable
· Solubility	Soluble in water
· Partition coefficient n-octanol/water (log value)	Not applicable
· Vapor pressure	Not determined
· Density and/or relative density	Not determined
· Relative vapor density	Not determined
· Particle characteristics	Not determined

9.2 Other information

9.2.1 Information with regard to physical hazard classes:

· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable
· Flammable liquids	Not applicable
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidizing liquids	Not applicable
· Oxidizing solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable

9.2.2 Other safety characteristics

· Mechanical sensitivity	Not applicable
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• <i>Self-accelerating polymerisation temperature</i>	<i>Not applicable</i>
• <i>Formation of explosible dust/air mixtures</i>	<i>Not applicable</i>
• <i>Acid/alkaline reserve</i>	<i>Not applicable</i>
• <i>Evaporation rate</i>	<i>Not applicable</i>
• <i>Miscibility</i>	<i>Not applicable</i>
• <i>Conductivity</i>	<i>Not applicable</i>
• <i>Corrosiveness</i>	<i>Not applicable</i>
• <i>Gas group</i>	<i>Not applicable</i>
• <i>Redox potential</i>	<i>Not applicable</i>
• <i>Radical formation potential</i>	<i>Not applicable</i>
• <i>Photocatalytic properties</i>	<i>Not applicable</i>
• <i>Other physical and chemical parameters</i>	<i>Not determined</i>

SECTION 10: Stability and reactivity

• **10.1 Reactivity:**

The product is non-reactive under normal conditions of use, storage and transport.

• **10.2 Chemical stability:**

Under storage at normal ambient temperatures, the product is stable.

• **10.3 Possibility of hazardous reactions:**

No known hazardous reaction.

• **10.4 Conditions to avoid:**

High temperature and flame.

• **10.5 Incompatible materials:**

Strong acids, oxidizing agents and flammable substance.

• **10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

• **11.1 Information on toxicological effects**

• **Acute toxicity:**

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

Species	Effective Dose	Results	Method/Source
151-21-3 Sodium Lauryl Sulfate			
Rat	LD50 oral	1290 mg/kg	Toxicological Data, compiled by the National Institute of Health (NIH), USA, selected and distributed by Technical Database Services (TDS), New York, 2009.
Rat	LC50 inhalation	>3900 mg/m ³ /1H	BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., 23-3/1971.
Rat	LD50 dermal	>2000 mg/kg	ECHA registered dossier.

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122-99-6 Phenoxyethanol

Rat	LD50 oral	1260 mg/kg	Journal of Industrial Hygiene and Toxicology. Vol. 23, Pg. 259, 1941.
Rabbit	LD50 dermal	5510 mg/kg	Toxicological Data, compiled by the National Institute of Health (NIH), USA, selected and distributed by Technical Database Services (TDS), New York, 2009.
Mouse	LD50 oral	933 mg/kg	Toksikologicheskii Vestnik., (3)(37), 1996.

Remark: All the above data are from literature.

• **Skin corrosion/irritation:**

Causes skin irritation.

• **Serious eyes damage/ irritation:**

Causes serious eye damage.

• **Respiratory or skin sensitization:**

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

• **Germ cell mutagenicity:**

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

• **Carcinogenicity:**

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

• **Reproductive toxicity:**

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

• **STOT-single exposure:**

May cause respiratory irritation.

• **STOT-repeated exposure:**

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

• **Aspiration hazard:**

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

• **11.2 Information on other hazards**

• **11.2.1 Endocrine disrupting properties:**

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

• **11.2.2 Other information:**

No known other relevant information on adverse health effects.

SECTION 12: Ecological information

• **12.1 Toxicity**

Species	Effect dose	Test duration	Value
151-21-3 Sodium Lauryl Sulfate			
Pimephales promelas	LC50	96h	29 mg/L
Cyprinodon variegatus	LC50	96h	4.1 mg/L

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<i>Pimephales promelas</i>	NOEC	42d	>= 1.36 mg/L
<i>Ceriodaphnia dubia</i>	EC50	48h	5.55 mg/L
<i>Artemia salina</i>	LC50	48h	3.15 mg/L
<i>Ceriodaphnia dubia</i>	NOEC	7d	0.88 mg/L
<i>Desmodesmus subspicatus</i>	EC50	72h	120 mg/L
<i>Desmodesmus subspicatus</i>	NOEC	72h	30 mg/L
Activated sludge	EC50	3h	135 mg/L
122-99-6 Phenoxxyethanol			
<i>Pimephales promelas</i>	LC50	96h	344 mg/L
<i>Pimephales promelas</i>	NOEC	34d	24 mg/L
<i>Daphnia magna</i>	LC50	48h	488 mg/L
<i>Daphnia magna</i>	NOEC	21d	9.43 mg/L
<i>Desmodesmus subspicatus</i>	EC50	72h	>100 mg/L
<i>Desmodesmus subspicatus</i>	NOEC	72h	46 mg/L
Activated sludge	NOEC	30 min	360 mg/L

12.2 Persistence and degradability:

CAS	Substance	Biodegradation	Hydrolysis
151-21-3	Sodium dodecyl sulphate	95%(28d)	-
122-99-6	Phenoxxyethanol	90%(28d)	DT50 > 1 yr

12.3 Bio-accumulative potential:

CAS	Substance	Log Pow	BCF
151-21-3	Sodium dodecyl sulphate	-2.03	-
122-99-6	Phenoxxyethanol	1.2	0.35

12.4 Mobility in soil:

CAS	Substance	Surface tension (mN/m)	Log Koc
151-21-3	Sodium dodecyl sulphate	25.2 mN/m (1 g/l, 23°C)	2.5
122-99-6	Phenoxxyethanol	70.7 mN/m (1000 mg/L, 19.9°C)	1.61

12.5 Results of PBT and vPvB assessment:

This mixture does not contain any substances ($\geq 0.1\%$) that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties:

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7 Other adverse effects:

No known other adverse effects.

12.8 Additional ecological information**General notes:**

WGK2 (German Regulation) (self-assessment): obviously hazard to waters.

Do not allow the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

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- **13.1 Waste treatment methods**

- **Recommendation:**

Must not be disposed together with household garbage.

- **13.2 Un-cleaned packaging**

- **Recommendation:**

Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

- **ADR/ADN/RID (2023 Edition)**

This product is not subject to ADR/ADN/RID.

- **IATA-DGR (65th)**

This product is not subject to IATA-DGR.

- **IMO/IMDG (41-22)**

This product is not subject to IMO/IMDG code.

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **MAK (German Maximum Workplace Concentration):**

None of the ingredients is listed

- **Directive 2012/18/EU**

- **Named dangerous substances-ANNEX I:**

None of the ingredients is listed.

- **Seveso category:**

Not applicable

- **Qualifying quantity (tonnes) for the application of lower-tier requirements:**

Not applicable

- **Qualifying quantity (tonnes) for the application of upper-tier requirements:**

Not applicable

- **National regulations.**

- **Water hazard class:**

WGK2 (German Regulation) (self-assessment): obviously hazard to waters.

- **Other regulations, limitations and prohibitive regulations**

- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:**

None of the ingredients is listed.

- **REACH Regulation Annex XVII Restriction:**

None of the ingredients is listed.

- **REACH Regulation Annex XIV Authorization List:**

None of the ingredients is listed.

- **15.2 Chemical safety assessment:**

A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

- **16.1 Indication of changes:**

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None.

• **16.2 Abbreviations and acronyms:**

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.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Flam. Sol. 2: Flammable solid, hazard category 2

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Irrit. 2: Skin corrosion/irritation, hazard category 2

Eye Dam. 1: Eye damage/irritation, hazard category 1

Eye Irrit. 2: Eye damage/irritation, hazard category 2

STOT SE 3: Specific target organ toxicity after single exposure, hazard category 3

Aquatic Chronic 3: Hazardous to the aquatic environment-chronic toxic, hazard category 3

• **16.3 Key literature references and sources for data:**

<https://echa.europa.eu/>

<https://chem.nlm.nih.gov/>

<https://www.osha.gov/>

<http://www.unece.org/>

<http://www.imo.org/>

<https://www.dguv.de/>

<https://epa.govt.nz/>

<http://www.ilo.org/>

<https://www.phmsa.dot.gov/>

• **16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]:**

See SECTION 2.1 (classification).

• **16.5 Relevant H- and EUH-phrases (number and full text):**

H228 Flammable solid

H302 Harmful if swallowed

H315 Causes skin irritation

H318 Causes serious eye damage

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H412 Harmful to aquatic life with long lasting effects

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Workers must be trained in general and specific aspects of safe work procedures for this chemical. Workers need easy to understand guidelines and instructions for safe working with this chemical. Instructions, guidelines and legally required documents need to be available for workers in easy to understand language.

· 16.7 Further information:

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

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End of safety data sheet