Safety Data Sheet RESFOAM HL 35

Safety Data Sheet dated: 06/30/2023 - version 1

Date of first edition: 06/30/2023

MAPEI

1. Identification

Product identifier

Mixture identification:

Trade name: RESFOAM HL 35

Trade code: 9024456

Recommended use and restrictions on use

Recommended use: Polyurethanic coating

Restrictions on use: Not available

Supplier's details

Company: MAPEI INC. (Canada)

2900 Francis-Hughes Avenue H7L 3J5 - Laval - QC - CAN

Phone: 1-450-662-1212

Responsible: RDProductSafety@mapei.com

Emergency phone number

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. Hazard identification





Classification of the product

Acute toxicity (inhalation), Category 4

Skin irritation, Category 2

Eye irritation, Category 2A

Respiratory Sensitization, Category 1

Skin Sensitization, Category 1

Carcinogenicity, Category 2

Specific target organ toxicity following repeated exposure,

Category 2

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer if inhaled, in contact with skin and if

swallowed.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Label elements

Pictograms and Signal Words



Danger

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H351 Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
 H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe vapours.

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P264 Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. P271 Contaminated work clothing must not be allowed out of the workplace. P272 P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 [In case of inadequate ventilation] wear respiratory protection. P302+P352 IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy P305+P351+P338 to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER if you feel unwell. P312 P314 Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. P333+P313 If eye irritation persists: Get medical advice/attention. P337+P313 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. P363 P405 Store locked up. Dispose of contents/container in accordance with applicable regulations. P501 Other hazards None

Ingredient(s) with unknown acute toxicity

None

3. Composition/information on ingredients

Substances

Not Relevant

Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
2.5-5 %	polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester	CAS:9016-87-9 EC:618-498-9 Index:615-005- 00-9	Acute Tox. 4, H332; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Eye Irrit. 2A, H319	
1-2.5 %	diphenylmethane-4,4'-diisocyanate	CAS:101-68-8 EC:202-966-0 Index:615-005- 00-9	Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351	01-2119457014-47-XXXX
1-2.5 %	toluene diisocyanate; 1,3- Diisocyanatomethylbenzene	EC:247-722-4	Acute Tox. 2, H330; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317; Carc. 2, H351; STOT SE 3, H335; Aquatic Chronic 3, H412	

The actual concentration of the components listed above is withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

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Protect uninjured eye.

Remove contact lenses, if present and easy to do. Continue rinsing.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show the packaging or label.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

Indication of immediate medical attention and special treatment needed, if necessary

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

5. Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the hazardous product

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not available Oxidizing properties: Not available

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Wash skin thoroughly after handling.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

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Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature: Not available

8. Exposure controls/personal protection Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester CAS: 9016-87-9		GERMANY	Long Term: 0.05 mg/m3
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8	ACGIH		Long Term: 0.005 ppm Resp sens
	MAK	GERMANY	Long Term: 0.05 mg/m3
	ACGIH		Long Term: 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	OSHA		Ceiling - Short Term: 0.2 mg/m3 - 0.02 ppm
	MAK	AUSTRIA	Long Term: 0.05 mg/m3 - 0.005 ppm; Short Term: 0.1 mg/m3 - 0.01 ppm
	ACGIH		Long Term: 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	OSHA		Ceiling - Short Term: 0.2 mg/m3 - 0.02 ppm
toluene diisocyanate; 1,3- Diisocyanatomethylbenzene CAS: 26471-62-5	ACGIH		Long Term: 0.001 ppm; Short Term: 0.005 ppm A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; Skin - potential significant contribution to overall exposure by the cutaneous route; dermal sensitizer; respiratory sensitizer; asthma; eye irritation; pulmonary function;
	ACGIH		Long Term: 0.001 ppm; Short Term: 0.005 ppm A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; Skin - potential significant contribution to overall exposure by the cutaneous route; asthma; eye irritation; pulmonary function; dermal sensitizer; respiratory sensitizer

Long Term: 0.035 mg/m3 - 0.005 ppm; Short Term: 0.14 mg/m3 - 0.02 ppm

Biological limit values

toluene diisocyanate; 1,3- Biological Indicator: Toluenediamine isomers with hydrolysis; Sampling Period: End of turn

Diisocyanatomethylbenze Value: 5 MICROGGCREAT; Medium: Urine ne Remark: Not Specific

MAK

AUSTRIA

CAS: 26471-62-5

Predicted No Effect Concentration (PNEC) values

diphenylmethane-4,4'- Exposure Route: Fresh Water; PNEC Limit: 1 mg/l diisocyanate

CAS: 101-68-8

Exposure Route: Marine water; PNEC Limit: 0.1 mg/l

Exposure Route: Soil; PNEC Limit: 1 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l

Exposure Route: Intermittent release; PNEC Limit: 10 mg/l

Derived No Effect Level (DNEL) values

diphenylmethane-4,4'-diisocyanate

CAS: 101-68-8

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Industry: 50 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Industry: 0.1 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Industry: 0.1 mg/m3

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Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 0.05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Industry: 0.05 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Consumer: 25 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Consumer: 0.05 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 20 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Consumer: 0.05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Consumer: 0.025 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Consumer: 0.025 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects

Worker Industry: 28.7 mg/cm2; Consumer: 17.2 mg/cm2

Appropriate engineering controls

Not available

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: liquid Amber

Odour: Characteristic

Odour threshold: No data available

pH: No data available

Melting point / freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: 100 °C (212 °F) Evaporation rate: No data available

Upper/lower flammability or explosive limits: No data available

Vapour density: No data available Vapour pressure: No data available Relative density: 1,10 g/cm3 Solubility in water: reacts Solubility in oil: No data available

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available Decomposition temperature: No data available

Viscosity: 0,88 PA-s

Explosive properties: No data available

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Oxidizing properties: No data available Solid/gas flammability: No data available

Other information

Substance Groups relevant properties No data available

Miscibility: No data available Fat Solubility: No data available Conductivity: No data available

10. Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. Toxicological information

Information on toxicological effects

Likely routes of exposure:

Skin contact, skin absorption, eye contact, inhalation and ingestion.

Toxicological Information of the Preparation

The product is classified: Acute toxicity (inhalation), Category 4(H332) a) acute toxicity

b) skin corrosion/irritation The product is classified: Skin irritation, Category 2(H315) c) serious eye damage/irritation The product is classified: Eye irritation, Category 2A(H319)

The product is classified: Respiratory Sensitization, Category 1(H334), Skin d) respiratory or skin sensitisation

Sensitization, Category 1(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity The product is classified: Carcinogenicity, Category 2(H351)

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

Not classified h) STOT-single exposure

Based on available data, the classification criteria are not met

The product is classified: Specific target organ toxicity following repeated exposure, i) STOT-repeated exposure

Category 2(H373)

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

LC50 Inhalation Rat = 490 mg/m3 4h

Toxicological information on main components of the mixture:

polymethylene a) acute toxicity

polyphenylene isocyanate; Isocyanic

polymethylenepolyphenyl ene ester

> LD50 Skin Rabbit > 9.4 g/kg LD50 Oral Rat = 49 g/kg

diphenylmethane-4,4'a) acute toxicity

diisocyanate

LD50 Oral Rat > 2000 mg/kg

LD50 Skin Rabbit > 9400 mg/kg

b) skin corrosion/irritation Skin Irritant Skin Rabbit Positive

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d) respiratory or skin sensitisation

Skin Sensitization Skin Mouse Positive

Respiratory Sensitization Inhalation Positive

f) carcinogenicity Carcinogenicity Inhalation Rat = 6 mg/m3 2 y 20 d g) reproductive toxicity NOAEL Inhalation Rat = 12 mg/m3

toluene diisocyanate; 1,3- a) acute toxicity Diisocyanatomethylbenze

LD50 Skin Rabbit = 10000 mg/kg

LD50 Oral Rat = 3060 mg/kg

LC50 Inhalation Rat = 0.099 mg/l 4h

Substance(s) listed on the IARC Monographs:

polymethylene polyphenylene Group 3 isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

diphenylmethane-4,4'-diisocyanate Group 3 toluene diisocyanate; 1,3-Group 2B Diisocyanatomethylbenzene

Substance(s) listed as OSHA Carcinogen(s):

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

Substance(s) listed as NIOSH Carcinogen(s):

None

Substance(s) listed on the NTP report on Carcinogens:

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

12. Ecological information

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Ecotox Data Component Ident. Numb.

diphenylmethane-4,4'-diisocyanate CAS: 101-68-8 - a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96

EINECS: 202-966-0 - INDEX: 615-005-00-9

> a) Aquatic acute toxicity: EC50 Daphnia > 1000 mg/L 24 b) Aquatic chronic toxicity: NOEC Daphnia > 10 mg/L - 21 d

a) Aquatic acute toxicity: EC50 Algae > 1640 mg/L 72

c) Bacteria toxicity: EC50 > 100 mg/L 3

d) Terrestrial toxicity: NOEC > 1000 mg/kg - 14 d

e) Plant toxicity: NOEC > 1000 mg/kg - 14 d

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene 5 - EINECS:

247-722-4 -INDEX: 615-006-00-4

CAS: 26471-62- d) Terrestrial toxicity: LC50 Worm Eisenia foetida > 1000 mg/kg 14d IUCLID

d) Terrestrial toxicity: NOEC Worm Eisenia foetida >= 1000 mg/kg 14d **TUCL ID**

Persistence and degradability

NΑ

Bioaccumulative potential

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N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. Disposal considerations

Safe handling and methods for disposal

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

UN number

TDG-UN number: Not Applicable ADR-UN number: Not Applicable DOT-UN Number: Not Applicable IATA-Un number: Not Applicable IMDG-Un number: Not Applicable

UN proper shipping name

TDG-Shipping Name: Not Applicable
ADR-Shipping Name: Not Applicable
DOT-Proper Shipping Name: Not Applicable
IATA-Technical name: Not Applicable
IMDG-Technical name: Not Applicable

Transport hazard class(es)

TDG-Class: Not Applicable
ADR-Class: Not Applicable
DOT-Hazard Class: Not Applicable
IATA-Class: Not Applicable

IMDG-Class: Not Applicable

Packing group

TDG-Packing Group: Not Applicable ADR-Packing Group: Not Applicable DOT Packing Group: Not Applicable IATA-Packing group: Not Applicable IMDG-Packing group: Not Applicable

Environmental hazards

Marine pollutant: No

Environmental Pollutant: Not Applicable

DOT-RQ: Not Applicable

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

Not Applicable

Special precautions in connection with transport or conveyance

TDG:

Not Applicable

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Department of Transportation (DOT):

Not Applicable

Road and Rail (ADR-RID):

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

15. Regulatory information

Canada - Federal regulations

DSL - Domestic Substances List

DSL (Domestic Substances List)

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL (Non Domestic Substances List)

No substances listed

NPRI - National Pollutant Release Inventory

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

polymethylene polyphenylene is listed in TSCA Section 8b isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

diphenylmethane-4,4'-diisocyanate is listed in TSCA Section 8b Section 8a - PAIR Section 5 toluene diisocyanate; 1,3- is listed in TSCA Section 8b Section 5a - SNUR Section 5 Diisocyanatomethylbenzene Section 12b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

diphenylmethane-4,4'-diisocyanate

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

Section 313 - Toxic chemical list:

polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

diphenylmethane-4,4'-diisocyanate

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act Substance(s) listed under CERCLA:

diphenylmethane-4,4'-diisocyanate Reportable quantity: 5000 pounds toluene diisocyanate; 1,3- Reportable quantity: 100 pounds Diisocyanatomethylbenzene

CAA - Clean Air Act

CAA listed substances:

diphenylmethane-4,4'-diisocyanate is listed in CAA Section 112(b) - HAP Section 112(b) - HON

toluene diisocyanate; 1,3- is listed in CAA Section 112(b) - HON

Diisocyanatomethylbenzene

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

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Substance(s) listed under California Proposition 65:

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

diphenylmethane-4,4'-diisocyanate

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

diphenylmethane-4,4'-diisocyanate

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

diphenylmethane-4,4'-diisocyanate

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

16. Other information

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Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Code	Hazard class and hazard category Description			
H412	Harmful to aquatic life with long lasting effects.			
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.			
H373	May cause damage to organs through prolonged or repeated exposure.			
H351	Suspected of causing cancer.			
H335	May cause respiratory irritation.			
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
H332	Harmful if inhaled.			
H330	Fatal if inhaled.			
H319	Causes serious eye irritation.			
H317	May cause an allergic skin reaction.			
H315	Causes skin irritation.			
Code	Description			

Code	Hazard class and hazard category	Description
A.1/2/Inhal	Acute Tox. 2	Acute toxicity (inhalation), Category 2
A.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
A.2/2	Skin Irrit. 2	Skin irritation, Category 2
A.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
A.4.1/1	Resp. Sens. 1	Respiratory Sensitization, Category 1
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1
A.6/2	Carc. 2	Carcinogenicity, Category 2
A.8/3	STOT SE 3	Specific target organ toxicity following single exposure, Category 3
A.9/2	STOT RE 2	Specific target organ toxicity following repeated exposure, Category 2
CAN-HAE/C3	Aquatic Chronic 3	Chronic (long-term) aquatic hazard - Category 3

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

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ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

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

GefStoffVO: Ordinance on Hazardous Substances, Germany. LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. WGK: German Water Hazard Class.

KSt: Explosion coefficient.

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