

Safety Data Sheet

TECNOTOP 2C /B

Safety Data Sheet dated: 12/01/2023 - version 1

Date of first edition: 12/01/2023

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: TECNOTOP 2C /B

Trade code: 904TN99999

Recommended use of the chemical and restrictions on use

Recommended use: Not available

Restrictions on use: Not available

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Polyglass U.S.A. Inc.

1111 West Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 866-222-9782

Responsible: RDProductSafety@mapei.com

Emergency 24 hour numbers:

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

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

2. HAZARD(S) IDENTIFICATION



Classification of the chemical

Flammable Liquids — Category 3

Flammable liquid and vapour.

Acute toxicity (inhalation), Category 4

Harmful if inhaled.

Skin irritation, Category 2

Causes skin irritation.

Eye irritation, Category 2A

Causes serious eye irritation.

Respiratory Sensitization, Category 1

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sensitization, Category 1

May cause an allergic skin reaction.

Specific target organ toxicity following single exposure, Category 3

May cause respiratory irritation.

Specific target organ toxicity following repeated exposure, Category 2

May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

Label elements

Hazard pictograms and Signal Word



Danger

Hazard statements

H226 Flammable liquid and vapour.

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.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 US\$P284
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a POISON CENTER if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see supplementary instructions on this label).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire, use a foam fire extinguisher to extinguish.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not Relevant

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
75-100 %	1,6-diisocyanatohexane homopolymer; Hexamethylene diisocyanate homopolymer	CAS:28182-81-2 EC:500-060-2	Acute Tox. 4, H332; STOT SE 3, H335; Skin Sens. 1, H317	01-2119970543-34-XXXX
10-20 %	reaction mass of ethylbenzene and xylene	EC:905-588-0	Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; STOT RE 2, H373; Asp. Tox. 1, H304	01-2119539452-40-XXXX

0.25-0.49 %	hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol	CAS:822-06-0 EC:212-485-8 Index:615-011-00-1	Acute Tox. 4, H302; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Acute Tox. 1, H330; Resp. Sens. 1, H334; Skin Sens. 1, H317	01-2119457571-37-XXXX
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4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Obtain medical attention if skin related symptoms persist.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

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 ophthalmologist immediately.
- Protect uninjured eye.

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 him packing or label.

Most important symptoms/effects, acute and delayed

Eye irritation
Eye damages
Skin Irritation
Erythema

Indication of any immediate medical attention and special treatment needed

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

Extinguishing media

Suitable extinguishing media:

- In case of fire, use a foam fire extinguisher to extinguish.

Unsuitable extinguishing media:

- None in particular.

Specific hazards arising from the chemical

- 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.
- Remove all sources of ignition.
- 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.
- 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.
- See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

- Always keep in a well ventilated place.
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- Store in a well-ventilated place. Keep cool.
- Avoid direct exposure to sunlight.
- Opened containers must be carefully resealed and kept upright to prevent leakage.
- Flammable mixtures may accumulate within the headspace of containers at room temperature.
- Storage at higher temperatures requires an appropriate evaluation of preventive and protection measures to be adopted.
- Storage temperature must be defined on the basis of a proper risk evaluation. Refer to other sections for additional information.
- Avoid accumulating electrostatic charge.
- Keep away from food, drink and feed.
- Electrical installations / working materials must comply with the technological safety standards.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

- Cool and adequately ventilated.
- Safety electric system.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol CAS: 822-06-0	ACGIH		Long Term: 0.005 ppm URT irr, resp sens
	MAK	GERMANY	Long Term: 0.035 mg/m ³ - 0.005 ppm
	ACGIH		Long Term: 0.005 ppm respiratory sensitization;upper respiratory tract irritation
	MAK	AUSTRIA	Long Term: 0.035 mg/m ³ - 0.005 ppm; Short Term: 0.035 mg/m ³ - 0.005 ppm
	MAK	AUSTRIA	Short Term: Ceiling - 0.035 mg/m ³ - 0.005 ppm

Biological limit values

hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol
CAS: 822-06-0

Biological Indicator: 1,6-Hexamethylenediamine with hydrolysis; Sampling Period: End of turn
Value: 15 MICROGGCREAT; Medium: Urine
Remark: Not Specific

Predicted No Effect Concentration (PNEC) values

1,6-diisocyanatohexane homopolymer;
Hexamethylene diisocyanate

Exposure Route: Fresh Water; PNEC Limit: 0.127 mg/l

homopolymer
CAS: 28182-81-2

Exposure Route: Marine water; PNEC Limit: 0.0127 mg/l
Exposure Route: Soil; PNEC Limit: 53182 mg/kg
Exposure Route: Freshwater sediments; PNEC Limit: 266700 mg/kg
Exposure Route: Marine water sediments; PNEC Limit: 26670 mg/kg
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 38.3 mg/l
Exposure Route: Intermittent release; PNEC Limit: 1.27 mg/l
Exposure Route: Fresh Water; PNEC Limit: 0.077 mg/l

hexamethylene
diisocyanate; Isocyanic
acid, diester with 1,6-
hexanediol
CAS: 822-06-0

Exposure Route: Marine water; PNEC Limit: 0.008 mg/l
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 8.42 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 0.013 mg/kg
Exposure Route: Marine water; PNEC Limit: 0.001 mg/kg
Exposure Route: Soil; PNEC Limit: 0.003

Derived No Effect Level (DNEL) values

1,6-diisocyanatohexane
homopolymer; Hexamethylene
diisocyanate
homopolymer
CAS: 28182-81-2 Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 1 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 0.5 mg/m³

hexamethylene
diisocyanate; Isocyanic
acid, diester with 1,6-
hexanediol
CAS: 822-06-0 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 0.035 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 0.07 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 0.035 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 0.07 mg/m³

Appropriate engineering controls: Not available

Individual protection measures

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 $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

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 light yellow
Odour: characteristic
Odour threshold: No data available
pH: Not Relevant
Melting point / freezing point: No data available
Initial boiling point and boiling range: 145 °C (293 °F)
Flash point: 38 °C (100 °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: 1,07 g/cm³
Solubility in water: No data available
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: 250,00 cPs
Explosive properties: No data available
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

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None.

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

- | | |
|--------------------------------------|--|
| a) acute toxicity | The product is classified: Acute toxicity (inhalation), Category 4(H332)
ATEmix - Inhalation (Vapours) : 12.5858 mg/l |
| 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) |
| d) respiratory or skin sensitisation | The product is classified: Respiratory Sensitization, Category 1(H334), Skin Sensitization, Category 1(H317) |
| e) germ cell mutagenicity | Not classified
Based on available data, the classification criteria are not met |
| f) carcinogenicity | Not classified
Based on available data, the classification criteria are not met |
| g) reproductive toxicity | Not classified
Based on available data, the classification criteria are not met |
| h) STOT-single exposure | The product is classified: Specific target organ toxicity following single exposure, Category 3(H335) |

i) STOT-repeated exposure The product is classified: Specific target organ toxicity following repeated exposure, Category 2(H373)

j) aspiration hazard Not classified
Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

1,6-diisocyanatohexane homopolymer; Hexamethylene diisocyanate homopolymer a) acute toxicity LD50 Oral Rat > 2500 mg/kg ratto femmina

LD50 Skin Rat > 2000 mg/kg
LD50 Skin Rabbit > 2000 mg/kg
LC50 Inhalation Mist Rat = 0.39 mg/l 4h ratto femmina
LC50 Inhalation Rat = 18500 mg/m³ 1h

hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol a) acute toxicity

LD50 Oral Rat = 746 mg/kg

LC50 Inhalation Vapour Rat = 0.124 mg/l 4h
LD50 Skin Rat > 7000 mg/kg
LD50 Skin Rat > 7000 mg/kg
LC50 Inhalation Rat = 0.06 mg/l 4h
LD50 Oral Rat = 738 mg/kg

Substance(s) listed on the IARC Monographs:

None

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

None

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

None

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

None

12. ECOLOGICAL INFORMATION

Toxicity

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

Eco-Toxicological Information:

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

Component	Ident. Numb.	Ecotox Data
1,6-diisocyanatohexane homopolymer; Hexamethylene diisocyanate homopolymer	CAS: 28182-81-2 - EINECS: 500-060-2	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 1000 mg/L 72 c) Bacteria toxicity : EC50 Bacteria = 3828 mg/L 3
hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol	CAS: 822-06-0 - EINECS: 212-485-8 - INDEX: 615-011-00-1	a) Aquatic acute toxicity : EC50 Algae = 77.4 mg/L 72 a) Aquatic acute toxicity : LC50 Fish = 8.8 mg/L 96

a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio = 26.1 mg/L 96h
IUCLID

a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio = 26.1 mg/L 96h
IUCLID - static

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

UN number

DOT-UN Number: UN1139

ADR-UN number: 1139

IATA-Un number: 1139

IMDG-Un number: 1139

UN proper shipping name

DOT-Proper Shipping Name: Coating solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)

ADR-Shipping Name: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining) (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35 °C)

IATA-Technical name: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)

IMDG-Technical name: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under-coating, drum or barrel lining)

Transport hazard class(es)

DOT-Hazard Class: 3

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

Packing group

DOT Packing Group: III

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

Environmental hazards

Marine pollutant: No
 Environmental Pollutant: Not Applicable
 DOT-RQ: Not Applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): B1, IB3, T2, TP1

DOT-Label(s): 3

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

Road and Rail (ADR-RID) :

ADR-Label: 3

ADR-Hazard identification number: 30

ADR-Transport category (Tunnel restriction code): 3 (D/E)

Air (IATA) :

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisioning: A3

Sea (IMDG) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 955

IMDG-EMS: F-E, S-E

15. REGULATORY INFORMATION**USA - Federal regulations****TSCA - Toxic Substances Control Act**

All the components are listed on the TSCA inventory

TSCA listed substances:

1,6-diisocyanatohexane homopolymer; Hexamethylene diisocyanate homopolymer is listed in TSCA Section 8b

hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol is listed in TSCA Section 8b Section 5

SARA - Superfund Amendments and Reauthorization Act**Section 302 - Extremely Hazardous Substances:**

No substances listed

Section 304 - Hazardous substances:

hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol

Section 313 - Toxic chemical list:

hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol

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

hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol Reportable quantity: 100 pounds

CAA - Clean Air Act

CAA listed substances:

hexamethylene diisocyanate; is listed in CAA Section 112(b) - HAP
 Isocyanic acid, diester with 1,6-hexanediol

CWA - Clean Water Act**CWA listed substances:**

No substances listed

USA - State specific regulations**California Proposition 65****Substance(s) listed under California Proposition 65:**

No substances listed

Massachusetts Right to know**Substance(s) listed under Massachusetts Right to know:**

hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol

Pennsylvania Right to know**Substance(s) listed under Pennsylvania Right to know:**

No substances listed

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

hexamethylene diisocyanate; Isocyanic acid, diester with 1,6-hexanediol

Canada - Federal regulations**DSL - Domestic Substances List**

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

This product complies with NDSL inventory

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

No substances listed

16. OTHER INFORMATION

Safety Data Sheet dated: 12/1/2023 - version 1

Additional classification information

NFPA Health: 0 = Minimal

NFPA Flammability: 3 = Flammable liquid

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: NONE



NFPA

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	Description
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Code	Hazard class and hazard category	Description
A.1/1/Inhal	Acute Tox. 1	Acute toxicity (inhalation), Category 1
A.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
A.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
A.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
A.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
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.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
B.6/3	Flam. Liq. 3	Flammable Liquids — 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).

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.