

## Safety Data Sheet

In accordance with GB/T 16483-2008, GB/T 17519-2013

### MAPEFLOOR I 900 CN / B

Safety Data Sheet dated: 11/09/2023 - version 1

Date of first edition: 11/09/2023



## 1. Chemical Product and company Identification

### Product identifier

Mixture identification:

Trade name: MAPEFLOOR I 900 CN / B

Trade code: 9025789

### Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Hardener for epoxy products

Uses advised against: N.A.

### Details of the supplier of the safety data sheet

Company: MAPEI CHINA – Mapei Construction Materials (Guangzhou) Co., Ltd  
No. 6, Fengying Road, Guangdong Conghua Economy Development Zone,  
Conghua District, Guangzhou, Guangdong Province, China

Phone: 86-20-8781 0701

Responsible: enquiry@mapei.com.cn

### Emergency telephone number

Phone: 86-20-8781 0701

## 2. Hazards identification



### Emergency overview:

N.A.

### Classification of the substance or mixture

Acute toxicity (oral), Category 4

Acute toxicity (dermal), Category 5

Skin corrosion, Category 1B

Serious eye damage, Category 1

Skin Sensitisation, Category 1

Reproductive toxicity, Category 2

Acute aquatic hazard, category 3

Chronic (long term) aquatic hazard, category 2

Harmful if swallowed.

May be harmful in contact with skin

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

Harmful to aquatic life

Toxic to aquatic life with long lasting effects.

### Label elements

#### Hazard pictograms and Signal Word



Danger

### Hazard statements

H302 Harmful if swallowed.

H313 May be harmful in contact with skin

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H361 Suspected of damaging fertility or the unborn child.

H402 Harmful to aquatic life

H411 Toxic to aquatic life with long lasting effects.

### 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 mist/vapours/spray.

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a doctor if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with applicable regulations.

#### Hazards identification:

Physical hazards: N.A.  
Health hazards: N.A.  
Environmental hazards: N.A.

#### Other hazards

No PBT or vPvB substances present in concentration  $\geq 0.1\%$

Other Hazards: No other hazards

### 3. Composition/information on ingredients

#### Substances

N.A.

#### Mixtures

Mixture identification: MAPEFLOOR I 900 CN /B

#### List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
$\geq 25$ - $< 50$ %	polyoxypropylenediamine	CAS:9046-10-0 EC:618-561-0	Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Corr. 1B, H314; Aquatic Chronic 3, H412	
$\geq 25$ - $< 50$ %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057-00-5	Acute Tox. 4, H302; Eye Irrit. 2A, H319	01-2119492630-38-XXXX
$\geq 10$ - $< 20$ %	4-tert-butylphenol	CAS:98-54-4 EC:202-679-0 Index:604-090-00-8	Skin Irrit. 2, H315; Eye Dam. 1, H318; Repr. 2, H361f; Aquatic Chronic 1, H410	01-2119489419-21-XXXX
$\geq 10$ - $< 20$ %	hexamethylenediamine	CAS:124-09-4 EC:204-679-6 Index:612-104-00-9	STOT SE 3, H335; Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312	01-2119473981-28-XXXX
$\geq 5$ - $< 10$ %	bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS:1675-54-3, 25085-99-8, 25068-38-6 EC:216-823-5 Index:603-073-00-2	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2A, H319; Aquatic Chronic 2, H411; Aquatic Acute 2, H401	01-2119456619-26-XXXX
$\geq 5$ - $< 10$ %	2,4,6-tris(dimethylaminomethyl)phenol	CAS:90-72-2 EC:202-013-9	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	01-2119560597-27-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.
- 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:

- Give nothing to eat or drink.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

### Advices for first aid responders

N.A.

### 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)

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## 5. Firefighting measures

### Extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

- None in particular.

### Special hazards arising from the substance or mixture

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.

### Advice for firefighters and protective measures

- 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.
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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove persons to safety.

### Environmental precautions

- 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.

### Precautionary measures to prevent the occurrence of secondary hazard

N.A.

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## 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.  
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**

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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## **8. Exposure controls/personal protection**

### **Control parameters**

No data available

### **Exposure controls**

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; EN ISO 374:

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  $\geq 480\text{min}$ .

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Use adequate protective respiratory equipment.

Hygienic and Technical measures

N.A.

### **Appropriate engineering controls:**

N.A.

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## **9. Physical and chemical properties**

### **Information on basic physical and chemical properties**

Physical state: Liquid

Appearance and colour: liquid Amber

Odour: ammonia

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 200 °C (392 °F)

Flash point: 100 °C (212 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.00 g/cm<sup>3</sup>

Solubility in water: slightly soluble

Solubility in oil: insoluble

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: 220.00 mPA-s

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

Volatile Organic compounds - VOCs = N.A.

#### Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Conductivity: N.A.

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## 10. Stability and reactivity

### 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.

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## 11. Toxicological information

### Information on toxicological effects

#### Toxicological Information of the Preparation

a) acute toxicity	The product is classified: Acute toxicity (oral), Category 4(H302), Acute toxicity (dermal), Category 5(H313)  ATEmix - Oral : 884.51 mg/kg bw ATEmix - Dermal : 2689.43 mg/kg bw
b) skin corrosion/irritation	The product is classified: Skin corrosion, Category 1B(H314)
c) serious eye damage/irritation	The product is classified: Serious eye damage, Category 1(H318)
d) respiratory or skin sensitisation	The product is classified: Skin Sensitisation, 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	The product is classified: Reproductive toxicity, Category 2(H361)
h) STOT-single exposure	Not classified  Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified  Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified  Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

benzyl alcohol	a) acute toxicity	LD50 Oral Rat = 1230 mg/kg LC50 Inhalation Rat = 8.8 mg/l 4h
4-tert-butylphenol	a) acute toxicity	LD50 Skin Rabbit = 2318 mg/kg LD50 Oral Rat = 4000 mg/kg
hexamethylenediamine	a) acute toxicity	LD50 Skin Rabbit = 1110 mg/kg LD50 Oral Rat = 750 mg/kg
bis-[4-(2,3-epoxipropoxy)phenyl]propane	a) acute toxicity	LD50 Skin Rabbit = 20 mg/kg  LD50 Oral Rat = 11300 µL/kg
2,4,6-	a) acute toxicity	LD50 Oral Rat = 2169 mg/kg

tris  
(dimethylaminomethyl)  
phenol

LD50 Skin Rat > 1 ml/kg

## 12. Ecological information

### Toxicity

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

Eco-Toxicological Information:

Toxic to aquatic life with long lasting effects.  
Harmful to aquatic life

### List of Eco-Toxicological properties of the product

The product is classified: Acute aquatic hazard, category 3(H402), Chronic (long term) aquatic hazard, category 2(H411)

### List of Eco-Toxicological properties of the components

#### Component

#### Ident. Numb. Ecotox Data

benzyl alcohol	CAS: 100-51-6 - EINECS: 202- 859-9 - INDEX: 603-057-00-5	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 460 mg/L 96h EPA
4-tert-butylphenol	CAS: 98-54-4 - EINECS: 202- 679-0 - INDEX: 604-090-00-8	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 4.71 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 6.9 mg/L 96h EPA a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 3.9 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 3.4 mg/L 48h EPA a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 11.2 mg/L 72h IUCLID
hexamethylenediamine	CAS: 124-09-4 - EINECS: 204- 679-6 - INDEX: 612-104-00-9	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus > 56 mg/L 96h IUCLID  a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 1825 mg/L 96h IUCLID  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 23.4 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 15 mg/L 72h IUCLID  a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 14.8 mg/L 96h IUCLID
bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS: 1675-54-3, 25085-99-8, 25068-38-6 - EINECS: 216- 823-5 - INDEX: 603-073-00-2	a) Aquatic acute toxicity : LC50 Fish = 2 mg/L 96h  a) Aquatic acute toxicity : EC50 Daphnia = 1.8 mg/L 48h
2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2 - EINECS: 202- 013-9 - INDEX: 603-069-00-0	a) Aquatic acute toxicity : LC50 Fish = 175 mg/L 96h  a) Aquatic acute toxicity : EC50 Algae = 46.7 mg/L 72h a) Aquatic acute toxicity : NOEC Algae = 25.1 mg/L 72h

### Persistence and degradability

N.A.

## Bioaccumulative potential

N.A.

## Mobility in soil

N.A.

## Other adverse effects

N.A.

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## 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.

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## 14. Transport information

### UN number

2735

### UN proper shipping name

ADR-Shipping Name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (aliphatic polyamine)

IATA-Technical name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (aliphatic polyamine)

IMDG-Technical name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (aliphatic polyamine)

### Transport hazard class(es)

ADR-Class: 8

IATA-Class: 8

IMDG-Class: 8

### Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

### Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Yes

### Special precautions for user

#### Road and Rail (ADR-RID):

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Special Provisions: 274

ADR-Transport category (Tunnel restriction code): 2 (E)

ADR-Limited Quantity threshold: 1 L

#### Air (IATA):

IATA-Passenger Aircraft: 851

IATA-Cargo Aircraft: 855

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: SG35 SGG18

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 274

IMDG-EMS: F-A, S-B

## 15. Regulatory information

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

Chemical classification, hazard labelling and precautionary statements according to GB30000.2-2013 ~ GB30000.29-2013.

#### Catalogue of Hazardous Chemicals:

##### Substance(s) listed under Catalogue of Hazardous Chemicals:

polyoxypropylenediamine	9046-10-0
benzyl alcohol	100-51-6
4-tert-butylphenol	98-54-4
hexamethylenediamine	124-09-4
bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2

#### Catalogue of Highly Toxic Chemicals:

##### Substance(s) listed under Catalogue of Highly Toxic Chemicals:

No substance(s) listed.

## 16. Other information

Code	Description
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
4.1/A2	Aquatic Acute 2	Acute aquatic hazard, category 2
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2



Date of revision of this SDS: . 9/11/2023

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

This SDS complies with "Safety data sheet for chemical product – Content and order of sections" (GB/T 16483-2008) and "Guidance on the compilation of safety data sheet for chemical products" (GB/T 17519-2013). The classification of the product in this SDS complies with "Rules for classification and labelling of chemicals" (GB30000.2-2013 ~ GB30000.29-2013).

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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

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ACGIH: American Conference of Governmental Industrial Hygienists

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

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

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

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

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

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

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

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

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

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

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

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

**Disclaimer:**

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.