

Safety Data Sheet

MAPEFLOOR PU 400 FC / B

Safety Data Sheet dated: 02/19/2024 - version 9

Date of first edition: 06/29/2015



1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: MAPEFLOOR PU 400 FC / B

Trade code: 906QM9999

Recommended use of the chemical and restrictions on use

Recommended use: Coating

Restrictions on use: Not available

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

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

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

Acute toxicity (inhalation), Category 3

Toxic if inhaled.

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 1B

May cause an allergic skin reaction.

Specific target organ toxicity following single exposure, Category 3

May cause respiratory irritation.

Chronic (long term) aquatic hazard, category 2

Toxic to aquatic life with long lasting effects.

Label elements

Hazard pictograms and Signal Word



Danger

Hazard statements

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P264 Wash skin 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.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

- P284 [In case of inadequate ventilation] wear respiratory protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- 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.
- 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.
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- 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 %	polypropylene glycol, isophorone diisocyanate polymer; poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane	CAS:39323-37-0 EC:609-647-9	STOT SE 3, H335; Acute Tox. 4, H332; Aquatic Chronic 2, H411; Resp. Sens. 1, H334; Skin Sens. 1B, H317	
5-10 %	propylene carbonate; 1,3-Dioxolan-2-one, 4-methyl-	CAS:108-32-7 EC:203-572-1 Index:607-194-00-1	Eye Irrit. 2A, H319	01-2119537232-48-xxxx
5-10 %	isophorone diisocyanate (ipdi); 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	CAS:4098-71-9 EC:223-861-6 Index:615-008-00-5	Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Acute Tox. 1, H330; Resp. Sens. 1, H334; Skin Sens. 1, H317; Aquatic Chronic 2, H411	01-2119490408-31-XXXX

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

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:

Water.

Carbon dioxide (CO₂).

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 Relevant

Oxidizing properties: Not Relevant

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.

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 food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
propylene carbonate; 1,3-Dioxolan-2-one, 4-methyl-CAS: 108-32-7	MAK	GERMANY	Long Term: 8.5 mg/m3 - 2 ppm
isophorone diisocyanate (ipdi); 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate CAS: 4098-71-9	MAK	GERMANY	Long Term: 0.046 mg/m3 - 0.005 ppm
	ACGIH		Long Term: 0.005 ppm respiratory sensitization
	MAK	AUSTRIA	Long Term: 0.046 mg/m3 - 0.005 ppm; Short Term: 0.092 mg/m3 - 0.01 ppm
	MAK	SWITZERLAND	Long Term: 0.02 mg/m3
		D	

Predicted No Effect Concentration (PNEC) values

- propylene carbonate; 1,3-Dioxolan-2-one, 4-methyl-CAS: 108-32-7 Exposure Route: Marine water; PNEC Limit: 0.09 mg/l
- Exposure Route: Fresh Water; PNEC Limit: 0.09 mg/l
- Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 7400 mg/l
- Exposure Route: Soil; PNEC Limit: 0.81 mg/kg

Derived No Effect Level (DNEL) values

- propylene carbonate; 1,3-Dioxolan-2-one, 4-methyl-CAS: 108-32-7 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 50 mg/kg
- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 20 mg/m3
- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 176 mg/m3
- Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 25 mg/kg
- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 43.5 mg/m3
- Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 25 mg/kg
- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 10 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 >=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 Clear
Odour: characteristic
Odour threshold: Not Relevant
pH: Not Relevant
Melting point / freezing point: Not Relevant
Initial boiling point and boiling range: Not Relevant
Flash point: 100 °C (212 °F)
Evaporation rate: Not Relevant
Upper/lower flammability or explosive limits: Not Relevant
Vapour density: Not Relevant
Vapour pressure: Not Relevant
Relative density: 1.05 g/cm³
Solubility in water: insoluble
Solubility in oil: partly soluble
Partition coefficient (n-octanol/water): Not Relevant
Auto-ignition temperature: Not Relevant
Decomposition temperature: Not Relevant
Viscosity: 260.00 mPA-s
Kinematic viscosity: > 20,5 mm²/sec (40 °C) mm²/s
Explosive properties: Not Relevant
Oxidizing properties: Not Relevant
Solid/gas flammability: Not Relevant

Other information

Substance Groups relevant properties Not Relevant
Miscibility: Not Relevant
Fat Solubility: Not Relevant
Conductivity: Not Relevant

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

Toxicological Information of the Preparation

- | | |
|--------------------------------------|--|
| a) acute toxicity | The product is classified: Acute toxicity (inhalation), Category 3(H331)
ATEmix - Inhalation (Vapours) : 2.55198 mg/l |
| b) skin corrosion/irritation | Not classified
Based on available data, the classification criteria are not met |
| 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 1B(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	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:

polypropylene glycol, isophorone diisocyanate polymer; poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg
propylene carbonate; 1,3-Dioxolan-2-one, 4-methyl-	a) acute toxicity	LD50 Skin Rabbit > 2000 mg/kg LD50 Oral Rat > 5000 mg/kg
isophorone diisocyanate (ipdi); 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	a) acute toxicity	LD50 Skin Rabbit > 5000 mg/kg LC50 Inhalation Rat = 0.135 mg/l 4h LD50 Oral Rat = 4814 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

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

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
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polypropylene glycol, isophorone diisocyanate polymer; poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane

CAS: 39323-37-0 - EINECS: 609-647-9

a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h

a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48h

a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72h

propylene carbonate; 1,3-Dioxolan-2-one, 4-methyl-

CAS: 108-32-7 - EINECS: 203-572-1 - INDEX: 607-194-00-1

a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio > 1000 mg/L 96h IUCLID

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 500 mg/L 48h IUCLID

a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus > 500 mg/L 72h IUCLID

isophorone diisocyanate (ipdi); 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

CAS: 4098-71-9 - EINECS: 223-861-6 - INDEX: 615-008-00-5

a) Aquatic acute toxicity : EC50 Daphnia = 27 mg/L 48h

a) Aquatic acute toxicity : IC50 Fish = 4 mg/L 96h

a) Aquatic acute toxicity : NOEC Algae = 4.4 mg/L 72h

a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 118.7 mg/L 72h IUCLID

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: UN2206

ADR-UN number: 2206

IATA-Un number: 2206

IMDG-Un number: 2206

UN proper shipping name

DOT-Proper Shipping Name: ISOCYANATES, TOXIC, N.O.S. (isophorone diisocyanate - aliphatic polyisocyanates)

ADR-Shipping Name: ISOCYANATES, TOXIC, N.O.S. (isophorone diisocyanate - aliphatic polyisocyanates)

IATA-Technical name: ISOCYANATES, TOXIC, N.O.S. (isophorone diisocyanate - aliphatic polyisocyanates)

IMDG-Technical name: ISOCYANATES, TOXIC, N.O.S. (isophorone diisocyanate - aliphatic polyisocyanates)

Transport hazard class(es)

DOT-Hazard Class: 6.1

ADR-Class: 6.1

IATA-Class: 6.1

IMDG-Class: 6.1

Packing group

DOT Packing Group: III

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Not Applicable

DOT-RQ: No

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): IB3, T7, TP1, TP13, TP28

DOT-Label(s): 6.1

DOT-Symbol: N/A

DOT-Cargo Aircraft: 220 L

DOT-Passenger Aircraft: 60 L

DOT-Bulk: 241

DOT-Non-Bulk: 203

Road and Rail (ADR-RID) :

ADR-Label: 6.1

ADR-Hazard identification number: 60

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

Air (IATA) :

IATA-Passenger Aircraft: 655

IATA-Cargo Aircraft: 663

IATA-Label: 6.1

IATA-Subsidiary hazards: -

IATA-Erg: 6L

IATA-Special Provisioning: A3

Sea (IMDG) :

IMDG-Stowage Code: Category E SW1

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 223 274

IMDG-EMS: F-A, S-A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

TSCA listed substances:

polypropylene glycol, isophorone is listed in TSCA Section 8b
diisocyanate polymer;
poly(oxy(methyl-1,2-ethanediyl)),
alpha-hydro-omega-hydroxy-,
polymer with 5-isocyanato-1-
(isocyanatomethyl)-1,3,3-

trimethylcyclohexane

propylene carbonate; 1,3-Dioxolan-2-one, 4-methyl- is listed in TSCA Section 8b

isophorone diisocyanate (ipdi); 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate is listed in TSCA Section 8b Section 8a - PAIR Section 5

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

isophorone diisocyanate (ipdi); 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Section 304 - Hazardous substances:

No substances listed

Section 313 - Toxic chemical list:

isophorone diisocyanate (ipdi); 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

No substances listed

CAA - Clean Air Act

CAA listed substances:

propylene carbonate; 1,3-Dioxolan-2-one, 4-methyl- is listed in CAA Section 112(b) - HON

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:

isophorone diisocyanate (ipdi); 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

isophorone diisocyanate (ipdi); 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

New Jersey Right to know

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

isophorone diisocyanate (ipdi); 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

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

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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	Description
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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.
H411	Toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
A.1/1/Inhal	Acute Tox. 1	Acute toxicity (inhalation), Category 1
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.4.2/1B	Skin Sens. 1B	Skin Sensitization, Category 1B
A.8/3	STOT SE 3	Specific target organ toxicity following single exposure, Category 3
US-HAE/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2

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.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 5. FIRE-FIGHTING MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION