Safety Data Sheet

PLANISEAL TRAFFIC COAT FS PART B

Safety Data Sheet dated: 06/16/2021 - version 6

Date of first edition: 03/05/2016



1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: PLANISEAL TRAFFIC COAT FS PART B

Trade code: 9024374

Recommended use of the chemical and restrictions on use

Recommended use: Hardener for epoxy products

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

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 Tox. 4 Harmful if swallowed.

Acute Tox. 4 Harmful in contact with skin. Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1A May cause an allergic skin reaction.

Repr. 1B May damage fertility. May damage the unborn child.

Aguatic Acute 1 Very toxic to aguatic life.

Aquatic Chronic 1 Very toxic to aquatic life with long lasting effects.

Skin Corr. 1C Causes severe skin burns and eye damage.

Label elements

Hazard pictograms and Signal Word





Hazard statements

H302 Harmful if swallowed.

H312 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.

H360FD May damage fertility. May damage the unborn child.

H400 Very toxic to aquatic life.

H410 Very 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 skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340 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. Immediately call a POISON CENTER. P310 P321 Specific treatment (see supplementary instructions on this label). P333+P313 If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. P362+P364 P391 Collect spillage. 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 available

Mixtures

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

Ident Numb

List of components

tion (% w/w)	Nume	Ident. Numb.	Classification	Registration Number
50-75 %	4-nonylphenol, branched; Isononylphenol		Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Repr. 2, H361	
10-20 %	aminoethylpiperazine; 2-piperazin- 1-ylethylamine	CAS:140-31-8	Acute Tox. 3, H311; Skin Corr. 1B, H314; Skin Sens. 1, H317; Eye Dam. 1, H318; Repr. 1B, H360	
5-10 %	benzyl alcohol; benzenemethanol	CAS:100-51-6	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2A, H319	
5-10 %	polyoxypropylenediamine; polypropylene glycol bis (2- aminipropyl ether)		Eye Dam. 1, H318; Aquatic Acute 3, H402; Acute Tox. 4, H302; Skin Corr. 1B, H314; Aquatic Chronic 3, H412	
2.5-5 %	2,4,6- tri(dimethylaminomethyl)phenol; Mesitol, alpha2,alpha4,alpha6- tris(dimethylamino)-	CAS:90-72-2	Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	
1-2.5 %	2-methylpentanediamine; 1,5- pentanediamine, 2-Methyl		Acute Tox. 4, H332; Acute Tox. 4, H302; Skin Corr. 1A, H314; Flam. Liq. 4, H227; Acute Tox. 4, H312; Eye Dam. 1, H318; STOT SE 3, H335	

Classification

Pegistration Number

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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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 opthalmologist 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/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:

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 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 persons to safety.

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.

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

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Storage temperature: Not available

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour Note
benzyl alcohol; benzenemethanol	MAK	GERMANY		22	5			
	MAK	SWITZERLAND		22	5			

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: pale yellow

Odour: No data available

Odour threshold: No data available

pH: 7.00

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: 0.98 g/cm3 Solubility in water: insoluble 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: No data available

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

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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

Toxicological information of the product:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information of the main substances found in the product:

4-nonylphenol, branched; a) acute toxicity

Isononylphenol

LD50 Oral Rat 1300 mg/kg

LD50 Skin Rabbit > 2000 mg/kg LD50 Skin Rabbit = 2000 mg/kg LD50 Oral Rat = 1300 mg/kg

aminoethylpiperazine; 2- a) acute toxicity

piperazin-1-ylethylamine

LD50 Skin Rabbit = $880 \mu L/kg$

LD50 Oral Rat = 2140 mg/kg LD50 Oral Rat = 2140 μ L/kg LD50 Skin Rabbit = 880 µL/kg

benzyl alcohol;

benzenemethanol

a) acute toxicity

LD50 Skin Rabbit = 2000,00000 mg/kg

LC50 Inhalation Rat = 8,80000 mg/l 4h

LD50 Oral Rat = 1230 mg/kg LD50 Skin Rabbit = 2 g/kg LD50 Oral Rat = 1230 mg/kg

polyoxypropylenediamine a) acute toxicity

; polypropylene glycol bis

(2-aminipropyl ether)

LD50 Skin Rabbit = 2980 mg/kg

LD50 Oral Rat = 242 mg/kg

a) acute toxicity 2,4,6-

tri(dimethylaminomethyl) phenol; Mesitol, alpha2,alpha4,alpha6tris(dimethylamino)-

LD50 Skin Rat = 1280 mg/kg

LD50 Oral Rat = 1000 mg/kg LD50 Skin Rat = 1280 mg/kg LD50 Oral Rat = 1200 mg/kg

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LC50 Inhalation Rat = 4,1 mg/l 1h

LC50 Inhalation Rat = 2,9 mg/l 1h LD50 Oral Rat = 1690 mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

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 components with eco-toxicological properties

List or components with eco-toxicological properties				
Component	Ident. Numb.	Ecotox Infos		
4-nonylphenol, branched; Isononylphenol	CAS: 84852-15- 3	LC50 Fish Pimephales promelas 0,135 mg/L 96h ,,Holcombe, G.W., Phipps, G.L., Knuth, M.L. and Felhaber, T. (1984) Environ. Pollut. (Series A) 35, 367-381		
		LC100 Fish Leuciscus idus 1,1 mg/L 48h ,,Huels study, 1988 (unpublished)		
		LC50 Fish Leuciscus idus 0,95 mg/L 48h ,,Huels study, 1988 (unpublished)		
		LOEC Fish Pimephales promelas 14 μ g/L 33d ,,Chemical Manufacturers Association (1991) Two environmental effects 4-Nonylphenol final reports 1. Chronic toxicity of Nonylphenol to the Mysid, Mysidopsis bahia: EnviroSystems Study Number 8977-CMA 2. Early life stage toxicity of Nonylphenol to the fath		
		NOEC Fish Pimephales promelas 7,4 μ g/L 33d ,,Chemical Manufacturers Association (1991) Two environmental effects 4-Nonylphenol final reports 1. Chronic toxicity of Nonylphenol to the Mysid, Mysidopsis bahia: EnviroSystems Study Number 8977-CMA 2. Early life stage toxicity of Nonylphenol to the fath		
		EC100 Daphnia Daphnia magna > 400 $\mu g/L$ 48h ,,Huels report No. DK-522, 1992 (unpublished)		
		EC0 Daphnia Daphnia magna < 100 $\mu g/L$ 48h ,,Huels report No. DK-522, 1992 (unpublished)		
		EC50 Daphnia Daphnia magna 140 μ g/L 48h ,,Huels report No. DK-522, 1992 (unpublished)		

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LOEC Daphnia Daphnia magna > 100 $\mu g/L$ 21d ,,Huels report No. DL-143, 1992 (unpublished)

NOEC Daphnia Daphnia magna 0,024 mg/L 21d ICI PLC (1991) Nonyl Phenol: Chronic Toxicity to Daphnia Magna Report No: BLS1319/B (Interim) BL4176/B (Final)

EC90 Algae Scenedesmus subspicatus (Desmodesmus subspicatus) 3,2 mg/L 72h Huels study (unpublished)

EC10 Algae Scenedesmus subspicatus (Desmodesmus subspicatus) 0,5 mg/L 72h Huels study (unpublished)

EC50 Algae Scenedesmus subspicatus (Desmodesmus subspicatus) 1,3 mg/L 72h Huels study (unpublished)

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 0.135 mg/L 96h IUCLID

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 0,1351 mg/L 96h FPA

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 0,14 mg/L 48h IUCLID

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata 0,36 mg/L 96h EPA $\,$

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata 0,16 mg/L 72h EPA

a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 1,3 mg/L 72h IUCLID

aminoethylpiperazine; 2-piperazin- CAS: 140-31-8 1-ylethylamine

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 1950 mg/L 96h EPA

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

a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss >= 100 mg/L 96h TUCI TD

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 32 mg/L 48h IUCLID

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 495 mg/L 72h IUCLID

benzyl alcohol; benzenemethanol CAS: 100-51-6

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 460 mg/L 96h FPA

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 10 mg/L 96 h EPA

a) Aquatic acute toxicity: EC50 Daphnia water flea = 23 mg/L 48h

Persistence and degradability

Not available

Bioaccumulative potential

Not available

Mobility in soil

Not available

Other adverse effects

Not available

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.

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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

ADR-UN number: 1760 DOT-UN Number: UN1760 IATA-Un number: 1760 IMDG-Un number: 1760

UN proper shipping name

ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (4-nonylphenol, branched; Isononylphenol - aminoethylpiperazine; 2-piperazin-

1-ylethylamine)

DOT-Proper Shipping Name: Corrosive liquids, n.o.s. (4-nonylphenol, branched; Isononylphenol - aminoethylpiperazine; 2-

piperazin-1-ylethylamine)

IATA-Technical name: CORROSIVE LIQUID, N.O.S. (4-nonylphenol, branched; Isononylphenol - aminoethylpiperazine; 2-piperazin-

1-ylethylamine)

IMDG-Technical name: CORROSIVE LIQUID, N.O.S. (4-nonylphenol, branched; Isononylphenol - aminoethylpiperazine; 2-piperazin-

1-ylethylamine)

Transport hazard class(es)

ADR-Class: 8

DOT-Hazard Class: 8

IATA-Class: 8
IMDG-Class: 8

Packing group

ADR-Packing Group: III DOT-Packing group: III IATA-Packing group: III IMDG-Packing group: III

Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Not available

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

Not available

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): IB3, T7, TP1, TP28

DOT-Label(s): 8

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: 8

ADR-Hazard identification number: 80

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

Air (IATA):

IATA-Passenger Aircraft: 852 IATA-Cargo Aircraft: 856

IATA-Label: 8

IATA-Subsidiary hazards: -

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IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A SW2

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 223 274

IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: F-A, S-B IMDG-MFAG: N/A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

4-nonylphenol, branched; is listed in TSCA Section 8b Section 8a - PAIR Section 5a -

Isononylphenol SNUR Section 12b

aminoethylpiperazine; 2-piperazin- is listed in TSCA Section 8b

1-ylethylamine

benzyl alcohol; benzenemethanol is listed in TSCA Section 8b polyoxypropylenediamine; is listed in TSCA Section 8b

polypropylene glycol bis (2-

aminipropyl ether)

2,4,6- is listed in TSCA Section 8b

tri(dimethylaminomethyl)phenol; Mesitol, alpha2,alpha4,alpha6-

tris(dimethylamino)-

2-methylpentanediamine; 1,5- is list

pentanediamine, 2-Methyl

is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

No substances listed

Section 313 - Toxic chemical list:

4-nonylphenol, branched; Isononylphenol

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

No substances listed

CAA - Clean Air Act

CAA listed substances:

benzyl alcohol; benzenemethanol 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:

aminoethylpiperazine; 2-piperazin-1-ylethylamine

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Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

aminoethylpiperazine; 2-piperazin-1-ylethylamine

benzyl alcohol; benzenemethanol

New Jersey Right to know

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

aminoethylpiperazine; 2-piperazin-1-ylethylamine

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

16. OTHER INFORMATION

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Additional classification information

NFPA Health: 3 = Serious

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal NFPA Special Risk: Not available



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
H227	Combustible liquid.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H360FD	May damage fertility. May damage the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.

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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).

 $\label{lem:GefStoffVO:Ordinance} GefStoffVO:\ Ordinance\ on\ Hazardous\ Substances,\ Germany.$

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
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 16. OTHER INFORMATION

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