

Safety Data Sheet

ULTRACARE HEAVY-DUTY STONE, TILE & GROUT CLEANER

Safety Data Sheet dated: 09/24/2025 - version 12

Date of first edition: 05/11/2015



1. IDENTIFICATION

Product identifier used on the label

Mixture identification:

Trade name: ULTRACARE HEAVY-DUTY STONE, TILE & GROUT CLEANER

Trade code: 9011564

Recommended use of the chemical and restrictions on use

Recommended use: Cleaner

Restrictions on use: Not available

Name, U.S. address, and U.S. 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

Chemicals corrosive to metal, Category 1

May be corrosive to metals.

Skin irritation, Category 2

Causes skin irritation.

Serious eye damage, Category 1

Causes serious eye damage.

Label elements

Hazard pictograms and Signal Word



Danger

Hazard statements

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P234 Keep only in original packaging.

P264 Wash skin thoroughly after handling.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P390 Absorb spillage to prevent material damage.

P406 Store in container with a resistant inner liner.

Hazards associated with foreseeable chemical reactions

None

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
≥3 - <5 %	2-butoxyethanol; ethylene glycol monobutyl ether	CAS:111-76-2 EC:203-905-0 EU CLP Index:603-014-00-0	Acute Tox. 3, H331; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319
≥1 - <2.5 %	ethoxylated c9-11 alcohols; Alkyl alcohol, C9-C11, ethoxylated	CAS:68439-46-3 EC:614-482-0	Acute Tox. 4, H302; Eye Dam. 1, H318
≥1 - <2.5 %	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides	CAS:61791-10-4 EC:612-393-1	Eye Dam. 1, H318; Aquatic Chronic 2, H411
≥1 - <2.5 %	tetrasodium edta; Tetrasodium ethylenediaminetetraacetate	CAS:64-02-8 EC:200-573-9 EU CLP Index:607-428-00-2	Acute Tox. 4, H332; Acute Tox. 4, H302; Eye Dam. 1, H318; STOT RE 2, H373
≥1 - <2.5 %	sodium hydroxide; caustic soda	CAS:1310-73-2 EC:215-185-5 EU CLP Index:011-002-00-6	Met. Corr. 1, H290; Skin Corr. 1A, H314

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

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:

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

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.

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

Do not pour the product into other containers. Always use the original container.

Keep away from food, drink and feed.

Incompatible materials:

May be corrosive to metals.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
2-butoxyethanol; ethylene glycol monobutyl ether CAS: 111-76-2	MAK	GERMANY	Long Term: 49 mg/m ³ - 10 ppm
	OSHA		Long Term: 240 mg/m ³ - 50 ppm prevent or reduce skin absorption;
	ACGIH		Long Term: 20 ppm A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; eye and upper respiratory tract irritation;
	MAK	AUSTRIA	Long Term: 98 mg/m ³ - 20 ppm; Short Term: 200 mg/m ³ - 40 ppm
	MAK	SWITZERLAND	Long Term: 49 mg/m ³ - 10 ppm
	OSHA		Long Term: 240 mg/m ³ - 50 ppm

prevent or reduce skin absorption

sodium hydroxide; caustic soda CAS: 1310-73-2	ACGIH	Long Term: 20 ppm A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; eye and upper respiratory tract irritation
	EU	Long Term: 98 mg/m ³ - 20 ppm; Short Term: 246 mg/m ³ - 50 ppm Skin
	ACGIH	Short Term: Ceiling - 2 mg/m ³ URT, eye, and skin irr
	OSHA	Long Term: 2 mg/m ³
	ACGIH	Short Term: Ceiling - 2 mg/m ³
	ACGIH	eye, skin and upper respiratory tract irritation
	MAK AUSTRIA	Long Term: 2 mg/m ³ ; Short Term: 4 mg/m ³
	MAK SWITZERLAND	Long Term: 2 mg/m ³

Biological limit values

2-butoxyethanol; Biological Indicator: butoxyacetic acid (BAA); Sampling Period: End of turn
ethylene glycol monobutyl ether Value: 200 MGGCREAT; Medium: Urine
CAS: 111-76-2

Predicted No Effect Concentration (PNEC) values

tetrasodium edta; Exposure Route: Fresh Water; PNEC Limit: 2,2 mg/l
Tetrasodium
ethylenediaminetetraacetate
CAS: 64-02-8

Exposure Route: Marine water; PNEC Limit: 0,22 mg/l

Derived No Effect Level (DNEL) values

tetrasodium edta; Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Tetrasodium Worker Industry: 2,5 mg/m³; Consumer: 1,5 mg/m³
ethylenediaminetetraacetate
CAS: 64-02-8

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 2,5 mg/m³; Consumer: 1,5 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, local effects
Consumer: 25 mg/kg

Appropriate engineering controls: Not available

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour:	liquid Clear
Odour:	characteristic
Odour threshold:	No data available
Melting point / freezing point:	No data available
Initial boiling point and boiling range:	94 °C (201 °F)
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point:	94 °C (201 °F)
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	11.00
Viscosity:	No data available
Kinematic viscosity:	<= 14 mm2/sec (40 °C)
Solubility in water:	dispersible
Solubility in oil:	miscible
Partition coefficient (n-octanol/water):	No data available
Vapour pressure:	No data available
Evaporation rate:	No data available
Relative density:	1.01 g/cm3
Vapour density:	No data available

Particle characteristics:

Particle size:	No data available
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Other information

Explosive properties:	No data available
Oxidizing properties:	No data available
Solid/gas flammability:	No data available
Substance Groups relevant properties:	No data available
Miscibility:	No data available
Fat Solubility:	No data available
Conductivity:	No data available

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

May be corrosive to metals.

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin irritation, Category 2(H315)
c) serious eye damage/irritation	The product is classified: Serious eye damage, Category 1(H318)
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
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	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:

2-butoxyethanol; ethylene glycol monobutyl ether	a) acute toxicity	LD50 Oral Guinea pig = 1414, mg/kg
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ethoxylated c9-11 alcohols; Alkyl alcohol, C9-C11, ethoxylated	a) acute toxicity	LD50 Oral Rat = 1400, mg/kg
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Quaternary ammonium compounds, coco alkylbis(hydroxyethyl) methyl, ethoxylated, chlorides	a) acute toxicity	LD50 Oral Rat = 580 mg/kg
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tetrasodium edta; Tetrasodium ethylenediaminetetraacetate	a) acute toxicity	LD50 Oral Rat = 1780 mg/kg
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LD50 Oral Rat = 1658 mg/kg

sodium hydroxide; caustic soda	a) acute toxicity	LD50 Oral Rat 2000 mg/kg
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LD50 Skin Rabbit 1350 mg/kg
LD50 Oral Rabbit 500 mg/kg
LD50 Skin Rabbit = 1350 mg/kg
LD50 Oral Rat = 325 mg/kg
LD50 Skin Rabbit = 1350 mg/kg

Substance(s) listed on the IARC Monographs:

2-butoxyethanol; ethylene glycol monobutyl ether	Group 3
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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
2-butoxyethanol; ethylene glycol monobutyl ether	CAS: 111-76-2 - EINECS: 203-905-0 - INDEX: 603-014-00-0	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 1490 mg/L 96h EPA a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 1000 mg/L 48h EPA a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 2950 mg/L 96h IUCLID
tetrasodium edta; Tetrasodium ethylenediaminetetraacetate	CAS: 64-02-8 - EINECS: 200-573-9 - INDEX: 607-428-00-2	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h a) Aquatic acute toxicity : LC50 Daphnia > 100 mg/L 48h a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72h b) Aquatic chronic toxicity : NOEC Fish Danio rerio >= 35,1 mg/L 21d b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna >= 35,1 mg/L 21d
sodium hydroxide; caustic soda	CAS: 1310-73-2 - EINECS: 215-185-5 - INDEX: 011-002-00-6	a) Aquatic acute toxicity : EC50 Daphnia = 76 mg/L 24 a) Aquatic acute toxicity : EC50 Daphnia = 40,38 mg/L 48 a) Aquatic acute toxicity : LC50 Fish = 99 mg/L 48 a) Aquatic acute toxicity : LC50 Fish = 45,5 mg/L 96 b) Aquatic chronic toxicity : NOEC Fish = 56 mg/L 96 a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 45,4 mg/L 96h IUCLID

Persistence and degradability

Component	Persistence/Degradability:
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sodium hydroxide; caustic soda	Readily biodegradable
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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: UN2735

ADR-UN number: 2735

IATA-Un number: 2735

IMDG-Un number: 2735

UN proper shipping name

DOT-Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (sodium hydroxide)

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (sodium hydroxide)

IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (sodium hydroxide)

IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (sodium hydroxide)

Transport hazard class(es)

DOT-Hazard Class: 8

ADR-Class: 8

IATA-Class: 8

IMDG-Class: 8

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: Yes DOT-RQ - Quantity: 1000 lbs

Transport in bulk according to IMO instruments

N.A.

Not Applicable

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

DOT-Limited Quantity threshold: 5 L

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: -
IATA-Erg: 8L
IATA-Special Provisioning: A3 A803
Sea (IMDG) :
IMDG-Stowage and handling: Category A
IMDG-Segregation: SG35
IMDG-Subsidiary hazards: -
IMDG-Special Provisioning: 223 274
IMDG-EMS: F-A, S-B

15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared according to the Hazard Communication Standard 2024 (HCS 2024)

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory
TSCA listed substances:
2-butoxyethanol; ethylene glycol monobutyl ether is listed in TSCA Section 8b

ethoxylated c9-11 alcohols; Alkyl alcohol, C9-C11, ethoxylated is listed in TSCA Section 8b

Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides is listed in TSCA Section 8b

tetrasodium edta; Tetrasodium ethylenediaminetetraacetate is listed in TSCA Section 8b

sodium hydroxide; caustic soda is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:
No substances listed

Section 304 - Hazardous substances:
sodium hydroxide; caustic soda

Section 313 - Toxic chemical list:
2-butoxyethanol; ethylene glycol monobutyl ether

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:
sodium hydroxide; caustic soda Reportable quantity: 1000 pounds

CAA - Clean Air Act

CAA listed substances:
2-butoxyethanol; ethylene glycol monobutyl ether is listed in CAA Section 112(b) - HON Section 112(b) - HAP

CWA - Clean Water Act

CWA listed substances:
sodium hydroxide; caustic soda is listed in CWA Section 311

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:
2-butoxyethanol; ethylene glycol monobutyl ether
sodium hydroxide; caustic soda

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

2-butoxyethanol; ethylene glycol monobutyl ether
sodium hydroxide; caustic soda

New Jersey Right to know

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

2-butoxyethanol; ethylene glycol monobutyl ether
sodium hydroxide; caustic soda

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: 9/24/2025 - version 12

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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H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
A.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
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.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A
A.2/2	Skin Irrit. 2	Skin irritation, Category 2
A.3/1	Eye Dam. 1	Serious eye damage, Category 1
A.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
A.9/2	STOT RE 2	Specific target organ toxicity following repeated exposure, Category 2
B.16/1	Met. Corr. 1	Chemicals corrosive to metal, Category 1
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.

EU CLP Index: Index number as reported in Annex VI to EU Reg. 1272/2008

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:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 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