

Safety Data Sheet

ULTRACOAT RENEWIT PRIMER / B

Safety Data Sheet dated: 06/03/2026 - version 9

Date of first edition: 03/17/2016



1. IDENTIFICATION

Product identifier used on the label

Mixture identification:

Trade name: ULTRACOAT RENEWIT PRIMER / B

Trade code: 9073832

Recommended use of the chemical and restrictions on use

Recommended use: Primer

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

Flammable Liquids — Category 3

Acute toxicity (inhalation), Category 4

Skin irritation, Category 2

Eye irritation, Category 2A

Respiratory Sensitization, Category 1

Skin Sensitization, Category 1

Reproductive toxicity, Category 1B

Specific target organ toxicity following single exposure, Category 3

Chronic (long term) aquatic hazard, category 3

Flammable liquid and vapour.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

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

May cause an allergic skin reaction.

May damage the unborn child.

May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

Label elements

Hazard pictograms and Signal Word



Danger

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H360D May damage the unborn child.

H412 Harmful 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.
P210	UN5\$P210
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharge.
P261	Avoid breathing mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	CA2\$P280.D
P284	[In case of inadequate ventilation] wear respiratory protection.
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 [or shower].
3	
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.
8	
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.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire, use a dry powder fire extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with applicable regulations.

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
≥60 - <70 %	n,n-dimethyl-cyclohexanamine compounds with 3-(cyclohexylamino)-1-propanesulfonic acid-blocked 1,6-diisocyanatohexane homopolymer; blocked polyisocyanate based on hexamethylene diisocyanate (HDI)	CAS:666723-27-9 EC:679-494-0	Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412; Skin Sens. 1, H317
≥30 - <36 %	dipropylene glycol dimethyl ether; 1-methoxy-3-(3-methoxypropoxy)propane	CAS:111109-77-4 EC:404-640-5	Flam. Liq. 4, H227
≥1 - <2.5 %	n,n-dimethylcyclohexylamine; cyclohexyldimethylamine	CAS:98-94-2 EC:202-715-5	Flam. Liq. 3, H226; Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1B, H314; Aquatic Chronic 3, H412

≥0.5 - <0.6 %	dioctyltin dilaurate; Bis(lauroyloxy)dioctylstannane	CAS:3648-18-8 EC:222-883-3 EU CLP Index:050-031-00-9	STOT RE 1, H372; Repr. 1B, H360D
≥0.1 - <0.2 %	4-methylbenzenesulfonyl isocyanate; 4-isocyanatosulphonyltoluene	CAS:4083-64-1 EC:223-810-8 EU CLP Index:615-012-00-7	Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334

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.
- Obtain medical attention if skin related symptoms persist.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

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

In case of Inhalation:

- If breathing is irregular or stopped, administer artificial respiration.
- In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

Eye irritation
Eye damages
Skin Irritation
Erythema

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

- None in particular.

Specific hazards arising from the chemical

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: Not available
- Explosive properties: Not available
- Oxidizing properties: Not available

Special protective equipment and precautions for fire-fighters

- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove all sources of ignition.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Provide adequate ventilation.

Use appropriate respiratory protection.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Retain contaminated washing water and dispose it.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Exercise the greatest care when handling or opening the container.
Do not use on extensive surface areas in premises where there are occupants.
Use localized ventilation system.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.
Safety electric system.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Predicted No Effect Concentration (PNEC) values

dipropylene glycol dimethyl ether; 1-methoxy-3-(3-methoxypropoxy)propane
CAS: 111109-77-4

Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

Exposure Route: Marine water; PNEC Limit: 0.1 mg/l

Exposure Route: Intermittent release; PNEC Limit: 10 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 1.16 mg/kg

Exposure Route: Soil; PNEC Limit: 0.1 mg/kg

Derived No Effect Level (DNEL) values

dipropylene glycol dimethyl ether; 1-methoxy-3-(3-methoxypropoxy)propane
CAS: 111109-77-4

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 22.1 mg/kg; Consumer: 5.26 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 133 mg/m³; Consumer: 15.79 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 1.67 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.

Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	Liquid
Appearance and colour:	viscous liquid clear
Odour:	characteristic
Odour threshold:	No data available
Melting point / freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	The product is classified Flam. Liq. 3
Upper/lower flammability or explosive limits:	No data available
Flash point:	60 °C (140 °F)
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Viscosity:	No data available
Kinematic viscosity:	No data available
Solubility in water:	dispersible
Solubility in oil:	No data available
Partition coefficient (n-octanol/water):	No data available
Vapour pressure:	No data available
Evaporation rate:	No data available
Relative density:	1.06 g/cm ³
Vapour density:	No data available

Particle characteristics:

Particle size:	No data available
----------------	-------------------

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

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None.

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

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

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	The product is classified: Acute toxicity (inhalation), Category 4(H332) ATEmix - Inhalation (Vapours) : 15.78 mg/l
b) skin corrosion/irritation	The product is classified: Skin irritation, Category 2(H315)
c) serious eye damage/irritation	The product is classified: Eye irritation, Category 2A(H319)
d) respiratory or skin sensitisation	The product is classified: Respiratory Sensitization, Category 1(H334), Skin Sensitization, Category 1(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	The product is classified: Reproductive toxicity, Category 1B(H360)
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:

n,n-dimethyl-cyclohexanamine compounds with 3-(cyclohexylamino)-1-propanesulfonic acid-blocked 1,6-diisocyanatohexane homopolymer; blocked polyisocyanate based on hexamethylene diisocyanate (HDI)	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
---	-------------------	----------------------------

		LC50 Inhalation Dust Rat = 1.5 mg/l 4h
d) respiratory or skin sensitisation		Skin Sensitization Skin Mouse Positive

dipropylene glycol dimethyl ether; 1-methoxy-3-(3-methoxypropoxy)propane	a) acute toxicity	LD50 Skin Rat > 2000 mg/kg
--	-------------------	----------------------------

LC50 Inhalation Rat > 792 mg/l 4h

n,n-dimethylcyclohexylamine; cyclohexyldimethylamine	a) acute toxicity	LC50 Inhalation Rat = 1889 mg/m3 2h
--	-------------------	-------------------------------------

LD50 Oral Rat = 272 mg/kg

dioctyltin dilaurate; Bis(lauroyloxy) dioctylstannane	a) acute toxicity	LD50 Oral Rat = 6450 mg/kg
---	-------------------	----------------------------

4-methylbenzenesulfonyl isocyanate; 4-isocyanatosulphonyltoluene	a) acute toxicity	LC50 Inhalation Rat > 640 ppm 1h
--	-------------------	----------------------------------

LD50 Oral Rat = 2234 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 3(H412)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
n,n-dimethyl-cyclohexylamine compounds with 3-(cyclohexylamino)-1-propanesulfonic acid-blocked 1,6-diisocyanatohexane homopolymer; blocked polyisocyanate based on hexamethylene diisocyanate (HDI)	CAS: 666723-27-9 - EINECS: 679-494-0	a) Aquatic acute toxicity : LC50 Fish = 35.2 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae = 72 mg/L 72h
dipropylene glycol dimethyl ether; 1-methoxy-3-(3-methoxypropoxy)propane	CAS: 111109-77-4 - EINECS: 404-640-5	a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96
		a) Aquatic acute toxicity : NOEC Fish > 300 mg/L 14
		a) Aquatic acute toxicity : LC50 Daphnia > 1000 mg/L 24

n,n-dimethylcyclohexylamine; cyclohexyldimethylamine	CAS: 98-94-2 - EINECS: 202- 715-5	b) Aquatic chronic toxicity : NOEC Daphnia = 10 mg/L - 21 d
		d) Terrestrial toxicity : LC50 > 1000 mg/kg - 14 d
		a) Aquatic acute toxicity : EC50 Algae = 4307 mg/L 72
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna Straus = 75 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae = 3.5 mg/L 72h
		a) Aquatic acute toxicity : LC50 Fish = 28.1 mg/L 96h

Persistence and degradability

Component	Persitence/Degradability:
n,n-dimethyl-cyclohexanamine compounds with 3-(cyclohexylamino)-1-propanesulfonic acid-blocked 1,6-diisocyanatohexane homopolymer; blocked polyisocyanate based on hexamethylene diisocyanate (HDI)	Non-readily biodegradable

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: UN1993

ADR-UN number: 1993

IATA-Un number: 1993

IMDG-Un number: 1993

UN proper shipping name

DOT-Proper Shipping Name: Flammable liquids, n.o.s. (glycol ethers - N,N-dimethylcyclohexylamine)

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (glycol ethers - N,N-dimethylcyclohexylamine)

IATA-Technical name: FLAMMABLE LIQUID, N.O.S. (glycol ethers - N,N-dimethylcyclohexylamine)

IMDG-Technical name: FLAMMABLE LIQUID, N.O.S. (glycol ethers - N,N-dimethylcyclohexylamine)

Transport hazard class(es)

DOT-Hazard Class: 3

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

Packing group

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

Environmental hazards

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

Transport in bulk according to IMO instruments

N.A.
Not Applicable

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): B1, B52, IB3, T4, TP1, TP29
DOT-Label(s): 3
DOT-Symbol: N/A
DOT-Cargo Aircraft: 220 L
DOT-Passenger Aircraft: 60 L
DOT-Bulk: 242
DOT-Non-Bulk: 203
DOT-Limited Quantity threshold: 5 L

Road and Rail (ADR-RID) :

ADR-Label: 3
ADR-Hazard identification number: -
ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA) :

IATA-Passenger Aircraft: 355
IATA-Cargo Aircraft: 366
IATA-Label: 3
IATA-Subsidiary hazards: -
IATA-Erg: 3L
IATA-Special Provisioning: A3

Sea (IMDG) :

IMDG-Stowage and handling: Category A
IMDG-Segregation: -
IMDG-Subsidiary hazards: -
IMDG-Special Provisioning: 223 274 955
IMDG-EMS: F-E, [S-E]

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:

n,n-dimethyl-cyclohexanamine is listed in TSCA Section 8b
compounds with 3-(cyclohexylamino)-1-propanesulfonic acid-blocked 1,6-diisocyanatohexane homopolymer;
blocked polyisocyanate based on hexamethylene diisocyanate (HDI)

dipropylene glycol dimethyl ether; is listed in TSCA Section 8b Section 5a - SNUR Section 12b
1-methoxy-3-(3-methoxypropoxy)propane

n,n-dimethylcyclohexylamine; is listed in TSCA Section 8b
cyclohexyldimethylamine

dioctyltin dilaurate; is listed in TSCA Section 8b
Bis(lauroyloxy)dioctylstannane

4-methylbenzenesulfonyl is listed in TSCA Section 8b
isocyanate; 4-
isocyanatosulphonyltoluene

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:

No substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

No substances listed

CAA - Clean Air Act

CAA listed substances:

No substances listed

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:

No substances listed

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

No substances listed

New Jersey Right to know

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

n,n-dimethylcyclohexylamine; cyclohexyldimethylamine

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: 6/3/2026 - version 9

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

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

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Code	Description
H226	Flammable liquid and vapour.
H227	Combustible liquid
H301	Toxic if swallowed.
H311	Toxic in contact with skin.

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
A.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
A.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
A.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3
A.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
A.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
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.7/1B	Repr. 1B	Reproductive toxicity, Category 1B
A.8/3	STOT SE 3	Specific target organ toxicity following single exposure, Category 3
A.9/1	STOT RE 1	Specific target organ toxicity following repeated exposure, Category 1
B.6/3	Flam. Liq. 3	Flammable Liquids — Category 3
B.6/4	Flam. Liq. 4	Flammable Liquids — Category 4
US-HAE/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

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

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
 IMDG: International Maritime Code for Dangerous Goods.
 IATA: International Air Transport Association.
 IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
 ICAO: International Civil Aviation Organization.
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
 CLP: Classification, Labeling, Packaging.
 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:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 5. FIRE-FIGHTING MEASURES

- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION