Safety Data Sheet ULTRABOND ECO 980

Safety Data Sheet dated: 06/15/2023 - version 13 Date of first edition: 05/29/2015



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

Eye irritation, Category 2A Respiratory Sensitization, Category 1

Skin Sensitization, Category 1

Label elements Hazard pictograms and Signal Word



Hazard statements

H317May cause an allergic skin reaction.H319Causes serious eye irritation.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing vapours.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
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+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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
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Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

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.
P363	Wash contaminated clothing before reuse.
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

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not Relevant

Mixtures

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

List of com	ponents			
Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
2.5-5 %	calcium oxide; quicklime	CAS:1305-78-8 EC:215-138-9	Skin Irrit. 2, H315; STOT SE 3, H335; Eye Dam. 1, H318	
0.49-1 %	4,4'-methylenediphenyl diisocyanate; benzene, 1,1'- methylenebis[4-isocyanato-	CAS:101-68-8 EC:202-966-0 Index:615-005- 00-9	Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351	01-2119457014-47-XXXX
0.49-1 %	silica sand; quartz	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372; Carc. 1A, H350	
0.1-0.25 %	4-methylbenzenesulfonyl isocyanate; 4- isocyanatosulphonyltoluene	CAS:4083-64-1 EC:223-810-8 Index:615-012- 00-7		

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 opthalmologist 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

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).

(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.

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

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

List of components with OEL value

	OEL Type	Country	Occupational Exposure Limit
calcium oxide; quicklime CAS: 1305-78-8	OSHA		Long Term 5 mg/m3
	ACGIH		Long Term 2 mg/m3 upper respiratory tract irritation;
	MAK	GERMANY	Long Term 1 mg/m3
	ACGIH		Long Term 2 mg/m3

	МАК	AUSTRIA	Long Term 1 mg/m3; Short Term 4 mg/m3
	MAK	SWITZERLAN D	Long Term 2 mg/m3
	MAK	SWITZERLAN D	Long Term 1 mg/m3
4,4'-methylenediphenyl diisocyanate; benzene, 1,1'- methylenebis[4-isocyanato- CAS: 101-68-8	ACGIH		Long Term 0.005 ppm Resp sens
	MAK	GERMANY	Long Term 0.05 mg/m3
	ACGIH		Long Term 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	OSHA		Ceiling - Short Term 0.2 mg/m3 - 0.02 ppm
	MAK	AUSTRIA	Long Term 0.05 mg/m3 - 0.005 ppm; Short Term 0.1 mg/m3 - 0.01 ppm
	ACGIH		Long Term 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	OSHA		Ceiling - Short Term 0.2 mg/m3 - 0.02 ppm
silica sand; quartz CAS: 14808-60-7	ACGIH		Long Term 0.025 mg/m3 A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;
	ACGIH		Long Term 0.025 mg/m3 A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	MAK	AUSTRIA	Long Term 0.15 mg/m3
	MAK	SWITZERLAN D	Long Term 0.15 mg/m3
Predicted No Effect Conce	ntration	(PNEC) value	25
			ater; PNEC Limit: 1 mg/l

upper respiratory tract irritation

Exposure Route: Marine water; PNEC Limit: 0.1 mg/l Exposure Route: Soil; PNEC Limit: 1 mg/kg Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l Exposure Route: Intermittent release; PNEC Limit: 10 mg/l

Derived No Effect Level. (DNEL)

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4- isocyanato- CAS: 101-68-8	Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Worker Industry: 50 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 0.1 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 0.1 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 0.05 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 0.05 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Consumer: 25 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 0.05 mg/m3
	Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects Consumer: 20 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Consumer: 0.05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 0.025 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 0.025 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects Worker Industry: 28.7 mg/cm2; Consumer: 17.2 mg/cm2

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: paste Beige 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: Not Relevant Evaporation rate: Not Relevant Upper/lower flammability or explosive limits: Not Relevant Vapour density: Not Relevant Vapour pressure: Not Relevant Relative density: 1.45 g/cm3 Solubility in water: dispersible Solubility in oil: Not Relevant Partition coefficient (n-octanol/water): Not Relevant Auto-ignition temperature: Not Relevant Decomposition temperature: Not Relevant Viscosity: Not Relevant 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

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL	INFORMATIO	N				
Information on toxicol	ogical effects					
Toxicological informati	Toxicological information of the product:					
a) acute toxicity		Not clas	ssified			
		Based o	on available data, the classification criteria are not me	et		
b) skin corrosion	/irritation	Not clas	ssified			
		Based on available data, the classification criteria are not met				
c) serious eye da	amage/irritation	The pro	oduct is classified: Eye irritation, Category 2A(H319)			
d) respiratory or	skin sensitisation		oduct is classified: Respiratory Sensitization, Category zation, Category 1(H317)	1(H334), Skin		
e) germ cell mut	agenicity	Not clas	ssified			
		Based o	on available data, the classification criteria are not me	et		
f) carcinogenicity	/	Not clas	ssified			
		Based o	on available data, the classification criteria are not me	et		
g) reproductive t	coxicity	Not clas	ssified			
		Based o	on available data, the classification criteria are not me	et		
h) STOT-single e	exposure	Not clas	ssified			
		Based o	on available data, the classification criteria are not me	et		
i) STOT-repeated	d exposure	Not clas				
		Based o	Based on available data, the classification criteria are not met			
j) aspiration haza	ard	Not clas	Not classified			
		Based on available data, the classification criteria are not met				
Toxicological informati	on of the main s	ubstand	ces found in the product:			
calcium oxide; quicklime	a) acute toxicity		LD50 Oral Rat = 500 mg/kg			
			LC50 Inhalation Rat > 6.04 mg/l 4h			
4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4- isocyanato-	a) acute toxicity		LD50 Oral Rat > 2000 mg/kg			
			LD50 Skin Rabbit > 9400 mg/kg			
	b) skin corrosion	/irritatio	n Skin Irritant Skin Rabbit Positive			
	d) respiratory or sensitisation	skin	Skin Sensitization Skin Mouse Positive			
			Respiratory Sensitization Inhalation Positive			
	f) carcinogenicity	/	Carcinogenicity Inhalation Rat = 6 mg/m3	2 y		
	g) reproductive t		NOAEL Inhalation Rat = 12 mg/m3	20 d		
silica sand; quartz	a) acute toxicity		LD50 Oral Rat = 500 mg/kg			
4-methylbenzenesulfonyl isocyanate; 4- isocyanatosulphonyltoluer e			LC50 Inhalation Rat > 640 ppm 1h			
			1 D50 Oral Rat = 2234 mg/kg			

Substance(s) listed on the IARC Monographs:

4,4'-methylenediphenyl Group 3 diisocyanate; benzene, 1,1'methylenebis[4-isocyanato-

silica sand; quartz

Group 1

Substance(s) listed as OSHA Carcinogen(s):

silica sand; quartz

Substance(s) listed as NIOSH Carcinogen(s):

silica sand; quartz

Substance(s) listed on the NTP report on Carcinogens:

silica sand; quartz

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 components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
calcium oxide; quicklime	CAS: 1305-78-8 - EINECS: 215- 138-9	a) Aquatic acute toxicity: LC50 Fish Cyprinus carpio = 1070 mg/L 96h IUCLID
4,4'-methylenediphenyl diisocyanate; benzene, 1,1'- methylenebis[4-isocyanato-	CAS: 101-68-8 - EINECS: 202- 966-0 - INDEX: 615-005-00-9	a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24
		b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d
		a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72
		c) Bacteria toxicity : EC50 > 100 mg/L 3
		d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d
		e) Plant toxicity : NOEC > 1000 mg/kg - 14 d
silica sand; quartz	CAS: 14808-60- 7 - EINECS: 238-878-4	a) Aquatic acute toxicity : LC50 carp > 10000 mg/L 72h

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.

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

Not classified as dangerous in the meaning of transport regulations.

UN number

DOT-UN Number: NA3082 ADR-UN number: Not Applicable IATA-Un number: -

IMDG-Un number: -

UN proper shipping name

DOT-Proper Shipping Name: Other regulated substances, liquid, n.o.s (methylene diphenyl diisocyanate) ADR-Shipping Name: Not Applicable

IATA-Technical name: - (methylene diphenyl diisocyanate)

IMDG-Technical name: - (methylene diphenyl diisocyanate)

Transport hazard class(es)

DOT-Hazard Class: 9

ADR-Class: Not Applicable IATA-Class: -

IMDG-Class: -

Packing group

DOT-Packing group: III ADR-Packing Group: Not Applicable IATA-Packing group: -

IMDG-Packing group: -

Environmental hazards

Marine pollutant: No

Environmental Pollutant: Not Applicable DOT-RQ: Yes DOT-RQ - Quantity: 5000 lbs.

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

Not Applicable

Special precautions

Department of Transportation (DOT):

Not Applicable

DOT-Special Provision(s): A189, IB3, T2, TP1

DOT-Label(s): 9

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) :

Not Applicable

ADR-Label: -

ADR-Hazard identification number: -

ADR-Transport category (Tunnel restriction code): -

Air (IATA):

Not Applicable IATA-Passenger Aircraft: - IATA-Cargo Aircraft: -

IATA-Label: -

IATA-Subsidiary hazards: -

IATA-Erg: -

IATA-Special Provisioning: -

Sea (IMDG) :

Not Applicable IMDG-Stowage Code: -

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: -

IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: -

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 I	listed	substances:
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calcium oxide; quicklime 4,4'-methylenediphenyl	is listed in TSCA is listed in TSCA	Section 8b Section 8b Section 8a - PAIR Section 5
diisocyanate; benzene, 1,1'- methylenebis[4-isocyanato-		
cilica cand: quartz	is listed in TSCA	Soction 8h

silica saliu, qualtz	IS IISLEU III I SCA	Section on	
4-methylbenzenesulfonyl isocyanate; 4-	is listed in TSCA	Section 8b	
isocyanatosulphonyltoluene			

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

Section 313 - Toxic chemical list:

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

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

4,4'-methylenediphenyl diisocyanate;	Reportable quantity:	5000	pounds
benzene, 1,1'-methylenebis[4-isocyanato-			

CAA - Clean Air Act

CAA listed substances:

4,4'-methylenediphenyl is listed in CAA Section 112(b) - HAP Section 112(b) - HON diisocyanate; benzene, 1,1'methylenebis[4-isocyanato-

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

silica sand; quartz Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

calcium oxide; quicklime

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

silica sand; quartz

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

calcium oxide; quicklime

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

silica sand; quartz

New Jersey Right to know

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

calcium oxide; quicklime

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanatosilica sand; quartz

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: 1 = Slight NFPA Flammability: 1 = Combustible if heated NFPA Reactivity: 0 = Minimal NFPA Special Risk: NONE



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	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
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.	
H350	May cause cancer.	
H351	Suspected of causing cancer.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.	
Code	Hazard class and hazard category	Description
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.6/1A	Carc. 1A	Carcinogenicity, Category 1A
A.6/2	Carc. 2	Carcinogenicity, Category 2
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
A.9/2	STOT RE 2	Specific target organ toxicity following repeated exposure, 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:

- Safety Data Sheet
- 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
- 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
- 13. DISPOSAL CONSIDERATIONS
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION