Safety Data Sheet ULTRABOND LANDSCAPE TURF CG

Safety Data Sheet dated: 01/08/2025 - version 9 Date of first edition: 10/28/2019



1. IDENTIFICATION

Product identifier Mixture identification: Trade name: ULTRABOND LANDSCAPE TURF CG Trade code: 9023332 Recommended use of the chemical and restrictions on use Recommended use: Polyurethane-based adhesive Restrictions on use: Not available Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party Company: MAPEI CORP. (USA and Puerto Rico) 1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA Phone: 954-246-8888 Responsable: 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

Skin irritation, Category 2	Causes skin irritation.
Eye irritation, Category 2A	Causes serious eye irritation.
Respiratory Sensitization, Category 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitization, Category 1	May cause an allergic skin reaction.
Specific target organ toxicity following repeated exposure, Category 2	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
Carcinogenicity, Category 2	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.

Label elements

Hazard pictograms and Signal Word



Hazard statements

H315	Causes skin irritation.

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H351 Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
- H373 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

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.

P	280	Wear protective gloves/protective clothing/eye protection/face protection.
P	284	[In case of inadequate ventilation] wear respiratory protection.
P	302+P352	IF ON SKIN: Wash with plenty of water.
P	304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P. 8		IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P	308+P313	IF exposed or concerned: Get medical advice/attention.
P	314	Get medical advice/attention if you feel unwell.
P	333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P	337+P313	If eye irritation persists: Get medical advice/attention.
P	342+P311	If experiencing respiratory symptoms: Call a doctor.
P	362+P364	Take off contaminated clothing and wash it before reuse.
P	501	Dispose of contents/container in accordance with applicable regulations.
I	5	vith 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 components

Qty	Name	Ident. Numb.	Classification
10-20 %	diphenylmethane-4,4'-diisocyanate	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
1-2.5 %	4-isocyanatesulphonyltoluene; tosyl isocyanate	CAS:4083-64-1 EC:223-810-8 Index:615-012-00-7	Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334
1-2.5 %	2,2'-dimorpholinyldethyl ether	CAS:6425-39-4 EC:229-194-7	Eye Irrit. 2A, H319
0.1-0.25 %	free crystalline silica (Ø >10 μ)	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372; Carc. 1A, H350

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:

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:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

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

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

Community Occupational Exposure Limits (OEL)

community occupation	•		-			
dishan umathana 4.4	OEL Type	Country	_	ational Exposure Limit		
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8	ACGIH		Resp se	erm: 0.005 ppm ens		
	MAK	GERMANY	Long Te	erm: 0.05 mg/m3		
	ACGIH			erm: 0.005 ppm tory sensitization (listed under Methylene bisphe	nyl isocyanate	(MDI))
	OSHA		Short T	erm: Ceiling - 0.2 mg/m3 - 0.02 ppm		
	MAK	AUSTRIA	Long Te	erm: 0.05 mg/m3 - 0.005 ppm; Short Term: 0.1	. mg/m3 - 0.01	ppm
	ACGIH			erm: 0.005 ppm tory sensitization (listed under Methylene bisphe	nyl isocyanate	(MDI))
	OSHA		Short T	erm: Ceiling - 0.2 mg/m3 - 0.02 ppm		
free crystalline silica ($\emptyset > \mu$)	10 ACGIH			erm: 0.025 mg/m3 Ispected Human Carcinogen;lung cancer;pulmor	arv fibrosis	
CAS: 14808-60-7					,	
	MAK	AUSTRIA	Long Te	erm: 0.15 mg/m3		
	ACGIH			erm: 0.025 mg/m3 - Pulm fibrosis, lung cancer		
	MAK	SWITZERLAN D	Long Te	erm: 0.15 mg/m3		
	EU			erm: 0.1 mg/m3 our Binding		
Predicted No Effect Cor	centration	(PNEC) value	25			
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8		. ,		EC Limit: 1 mg/l		
	Exposure R	oute: Marine w	vater; PN	IEC Limit: 0.1 mg/l		
	Exposure R	oute: Soil; PNE	EC Limit:	1 mg/kg		
	Exposure R	oute: Microorg	anisms i	n sewage treatments; PNEC Limit: 1 mg/l		
				ase; PNEC Limit: 10 mg/l		
2,2'-dimorpholinyldethyl ether CAS: 6425-39-4	Exposure R	oute: Fresh Wa	ater; PN	EC Limit: 0.1 mg/l		
	Exposure R	oute: Marine w	vater; PN	IEC Limit: 0.01 mg/l		
	Exposure R	oute: Freshwa	ter sedir	nents; PNEC Limit: 8.2 mg/kg		
				liments; PNEC Limit: 0.82 mg/kg		
	Exposure R	oute: Soil; PNE	EC Limit:	1.58 mg/kg		
Derived No Effect Level						
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8	•	oute: Human [ustry: 50 mg/l		Exposure Frequency: Short Term, systemic effe	cts	
		oute: Human I ustry: 0.1 mg/		n; Exposure Frequency: Short Term, systemic e	ffects	
		oute: Human I ustry: 0.1 mg/		n; Exposure Frequency: Short Term, local effect	S	
		oute: Human I ustry: 0.05 mg		n; Exposure Frequency: Long Term, systemic ef	fects	
	•	oute: Human I ustry: 0.05 mg		n; Exposure Frequency: Long Term, local effects	5	
	Exposure R	oute: Human [Dermal;	Exposure Frequency: Short Term, systemic effect	cts	
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	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
2,2'-dimorpholinyldethyl ether CAS: 6425-39-4	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 7.28 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 1 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 1.8 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 0.5 mg/kg
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 0.5 mg/kg
Appropriate engineering of	controls: Not available
Individual protection n	neasures
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 Green Odour: mild Odour threshold: Not Relevant pH: Not Relevant Melting point / freezing point: Not Relevant Initial boiling point and boiling range: Not Relevant Flash point: 94 °C (201 °F) Evaporation rate: Not Relevant Upper/lower flammability or explosive limits: Not Relevant Vapour density: Not Relevant Vapour pressure: Not Relevant Relative density: 1.07 g/cm3 Solubility in water: Insoluble Solubility in oil: partly soluble Partition coefficient (n-octanol/water): Not Relevant Auto-ignition temperature: Not Relevant Decomposition temperature: Not Relevant Viscosity: 115.00 mPA-s Kinematic viscosity: > 20,5 mm2/sec (40 °C) mm2/s Explosive properties: Not Relevant Oxidizing properties: Not Relevant Solid/gas flammability: Not Relevant

Other information

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

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions **Chemical stability**

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicit	Y	Not clas	ssified				
		Based o	on availa	able data, the classification criteria are not	met		
b) skin corrosi	on/irritation	The pro	duct is o	classified: Skin irritation, Category 2(H315	5)		
c) serious eye	damage/irritatior	The pro	duct is o	classified: Eye irritation, Category 2A(H31	9)		
d) respiratory	or skin sensitisati			classified: Respiratory Sensitization, Categ Category 1(H317)	ory 1(H334), Skin		
e) germ cell m	utagenicity	Not clas	ssified				
		Based o	on availa	able data, the classification criteria are not	met		
f) carcinogenic	ity	The pro	duct is o	classified: Carcinogenicity, Category 2(H3	51)		
g) reproductive	e toxicity	Not clas	ssified				
		Based o	on availa	able data, the classification criteria are not	met		
h) STOT-single	exposure	Not clas	ssified				
		Based o	on availa	able data, the classification criteria are not	met		
i) STOT-repeat	ed exposure	•	oduct is o ry 2(H37	classified: Specific target organ toxicity fol 73)	lowing repeated expo	osure,	
j) aspiration ha	azard	Not clas	ssified				
		Based o	on availa	able data, the classification criteria are not	met		
Toxicological informa	tion on main co	mponents	of the	mixture:			
diphenylmethane-4,4'- diisocyanate	a) acute toxic	ity	LD50 (Oral Rat > 2000 mg/kg			
	f) carcinogeni	city	Carcin	ogenicity Inhalation Rat = 6 mg/m3	2 y		
	g) reproductiv	e toxicity	NOAEL	Inhalation Rat = 12 mg/m3	20 d		
4- isocyanatesulphonyltolu	a) acute toxic Ien	ity	LC50 I	inhalation Rat > 640 ppm 1h			
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		LD50 Oral Rat = 2234 mg/kg
2,2'-dimorpholinyldethyl ether	a) acute toxicity	LD50 Skin Rabbit = 3038 mg/kg
		LD50 Oral Rat = 2025 mg/kg
		LD50 Oral Rat 300 mg/kg
free crystalline silica (Ø >10 μ)	a) acute toxicity	LD50 Oral > 2000 mg/kg
		LD50 Skin > 2000 mg/kg

Substance(s) listed on the IARC Monographs:

diphenylmethane-4,4'-diisocyanate Group 3 free crystalline silica (Ø >10 μ) Group 1

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

free crystalline silica (Ø >10 μ)

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

free crystalline silica (Ø >10 μ)

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

free crystalline silica (Ø >10 μ)

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
diphenylmethane-4,4'-diisocyanato	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
2,2'-dimorpholinyldethyl ether	CAS: 6425-39-4 - EINECS: 229- 194-7	a) Aquatic acute toxicity: LC50 Fish > 2150 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish Danio rerio > 2150 mg/L 96h ECHA
Persistence and degradability		
N.A.		
Bioaccumulative potential		
N.A.		
Mobility in soil		
N.A.		

Print date

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

Not classified as dangerous in the meaning of transport regulations.

UN number

DOT-UN Number: Not Applicable

ADR-UN number: Not Applicable

IATA-Un number: Not Applicable IMDG-Un number: Not Applicable

UN proper shipping name

DOT-Proper Shipping Name: Not Applicable ADR-Shipping Name: Not Applicable IATA-Technical name: Not Applicable IMDG-Technical name: Not Applicable

Transport hazard class(es)

DOT-Hazard Class: Not Applicable ADR-Class: Not Applicable IATA-Class: Not Applicable IMDG-Class: Not Applicable

Packing group

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

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

Road and Rail (ADR-RID):

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

SCA -					
	All the components are listed on the TSCA listed substances:	TSCA inventory			
	diphenylmethane-4,4'-diisocyanate is	s listed in TSCA	Section 8b Se	ction 8a - PAIR	Section 5
	4-isocyanatesulphonyltoluene; is tosyl isocyanate	s listed in TSCA	Section 8b		
	2,2'-dimorpholinyldethyl ether is	s listed in TSCA	Section 8b		
	free crystalline silica (Ø >10 μ) is	s listed in TSCA	Section 8b		
SARA ·	- Superfund Amendments and Real				
	Section 302 - Extremely Hazardo No substances listed	us Substances	•:		
	Section 304 - Hazardous substan	ces:			
	diphenylmethane-4,4'-diisocyanate				
	Section 313 - Toxic chemical list:	1			
	diphenylmethane-4,4'-diisocyanate				
CERCL	A - Comprehensive Environmental	Response, Cor	mpensation, a	nd Liability Ac	t
	Substance(s) listed under CERCL	-	,, u		
	diphenylmethane-4,4'-diisocyanate	Reporta	ble quantity:	5000	pounds
CAA - (Clean Air Act				
	CAA listed substances:				
	CAA listed substances: diphenylmethane-4,4'-diisocyanate is	s listed in CAA	Section 112(b) - HAP Section	112(b) - HON
CWA -		s listed in CAA	Section 112(b) - HAP Section	112(b) - HON
CWA -	diphenylmethane-4,4'-diisocyanate is	s listed in CAA	Section 112(b) - HAP Section	112(b) - HON
CWA -	diphenylmethane-4,4'-diisocyanate is Clean Water Act	s listed in CAA	Section 112(b) - HAP Section	112(b) - HON
USA -	diphenylmethane-4,4'-diisocyanate is Clean Water Act CWA listed substances:	s listed in CAA	Section 112(b) - HAP Section	112(b) - HON
USA -	diphenylmethane-4,4'-diisocyanate is Clean Water Act CWA listed substances: No substances listed State specific regulations) - HAP Section	112(b) - HON
USA -	diphenylmethane-4,4'-diisocyanate is Clean Water Act CWA listed substances: No substances listed State specific regulations mia Proposition 65 Substance(s) listed under Califor		n 65:) - HAP Section	112(b) - HON
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USA - Califor	diphenylmethane-4,4'-diisocyanate is Clean Water Act CWA listed substances: No substances listed State specific regulations rnia Proposition 65 Substance(s) listed under Califor free crystalline silica (Ø >10 μ)	r nia Propositio .isted as carcino	n 65: gen) - HAP Section	112(b) - HON
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Safety Data Sheet dated: 1/8/2025 - 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 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. H350 May cause cancer. H351 Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. H372 May cause damage to organs through prolonged or repeated exposure if inhaled. H373 Code Hazard class and hazard category Description Acute Tox. 4 Acute toxicity (inhalation), Category 4 A.1/4/Inhal A.2/2 Skin Irrit. 2 Skin irritation, Category 2 A.3/2A Eye Irrit. 2A Eye irritation, Category 2A Respiratory Sensitization, Category 1 A.4.1/1 Resp. Sens. 1 A.4.2/1 Skin Sens. 1 Skin Sensitization, Category 1 Carc. 1A Carcinogenicity, Category 1A A.6/1A 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:

- 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
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION