

Safety Data Sheet according to Regulation (EC) No. 2015/830

SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

1.1	Product Identifier	TZ PRE-TREATMENT	Revision Date:	19/01/2017
	Product Name:	TZ Pre-Treatment	Supercedes Date:	28/05/2015

1.2 Relevant identified uses of the substance or mixture and uses advised against
Coatings and paints, thinners, paint removers. Hand-mixing with intimate contact and only PPE available. Wide dispersive indoor use resulting in inclusion into or onto a matrix. For use by appropriately trained applicators. Roller application or brushing. Low energy spreading of coatings. Advised against: Home DIY applications, because of the health hazards and training required.

1.3 Details of the supplier of the safety data sheet

	Supplier:	Flowcrete UK Ltd. The Flooring Technology Centre Booth Lane Moston, Sandbach, Cheshire. UK CW11 3QF
		Tel: +44 (0)1270 753000 Fax: +44 (0)1270 753333 ehs.uk@flowcrete.com http://www.flowcrete.co.uk
	Datasheet Produced by:	ehs.uk@flowcrete.com
1.4	Emergency telephone number:	CHEMTREC +001 703 5273887 (Outside US) CHEMTREC 1-800-424-9300 (Inside US)

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

Other EU extensions	EUH204
Flammable Liquid, category 3	H226
Skin Sensitizer, category 1	H317
Acute Toxicity, Inhalation, category 4	H332

STOT, single exposure, category 3, RTI

2.2 Label elements

Symbol(s) of Product



Signal Word Warning

Named Chemicals on Label

Dibutyltin dilaurate, Ethylbenzene, Hexamethylene diisocyanate, Xylene, Hexamethylene-1,6-diisocyanate homopolymer HAZARD STATEMENTS

Other EU extensions Flammable Liquid, category 3 Skin Sensitizer, category 1 Acute Toxicity, Inhalation, category 4 STOT, single exposure, category 3, RTI PRECAUTION PHRASES	EUH204 H226 H317 H332 H335	Contains isocyanates. May produce an allergic reaction. Flammable liquid and vapour. May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/ face protection.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.
	P403+233	Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

SECTION 3: Composition/Information On Ingredients

3.2 **Mixtures**

Hazardous Ingredients

CAS-No.	EINEC No.	Name According to EEC	<u>%</u>	
108-65-6	203-603-9	2-methoxy-1-methylethyl-acetate	25-50	
28182-81-2	500-060-2	Hexamethylene-1,6-diisocyanate homopolymer	25-50	
1330-20-7	215-535-7	Xylene	2.5-10	
100-41-4	202-849-4	Ethylbenzene	1.0-2.5	
822-06-0	212-485-8	Hexamethylene diisocyanate	0.1-1.0	
70657-70-4	274-724-2	2-methoxypropyl acetate	0.1-1.0	
77-58-7	58-7 201-039-8 Dibutyltin dilaurate		0.1-1.0	
CAS-No.	REACH Reg No	. <u>CLP Symbols</u>	CLP Hazard Statements	M-Factors
108-65-6	65-6 01-2119475791-29 GHS02		H226	

H335

28182-81-2	01-2119488934-20	GHS07
1330-20-7	01-2119488216-32	GHS02-GHS07
100-41-4	01-2119489370-35	GHS02-GHS07-GHS08
822-06-0	01-2119457571-37	GHS05-GHS06-GHS08
70657-70-4		GHS02-GHS07-GHS08
77-58-7	01-2119496068-27	GHS05-GHS07-GHS08-GHS09

H317-332-335 H226-312-315-332 H225-304-315-319-332-373 H302-314-317-330-334 H226-335-360 H314-317-341-360-370-400-410

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Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

SECTION 4: First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes.

AFTER INHALATION: Move to fresh air. Keep respiratory tract clear. Remove person to fresh air. If signs/symptoms continue, get medical attention.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do NOT use solvents or thinners.

AFTER EYE CONTACT: Keep eye wide open while rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. If symptoms persist, call a physician or Poison Control Centre immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

No Information

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture

Explosive reaction may occur on heating or burning. In use, may form flammable/explosive vapour-air mixture.

5.3 Advice for firefighters

Keep containers and surroundings cool with water spray. Fire will produce dense black smoke containing hazardous combustion products (see section 10). Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Water mistDry powderFoamCarbon dioxide (CO2)Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Remove all sources of ignition.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Ventilate the area. Refer to protective measures listed in sections 7 and 8.

6.4 Reference to other sections

FURTHER INSTRUCTIONS: Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Use only in area provided with appropriate exhaust ventilation. Provide exhaust ventilation close to floor level. As a rule, at least 10 air changes per hour are recommended at the workplace. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Open drum carefully as content may be under pressure. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Polymerisation occurs when exposed to white light, ultraviolet light or heat. Heat, flames and sparks. Direct sources of heat. Strong sunlight for prolonged periods. Exposure to sunlight.

STORAGE CONDITIONS: Store at room temperature in the original container. Keep in an area equipped with solvent resistant flooring. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)

The mixing and application to be in accordance with the technical data sheets.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits

(UK WELS)

Name	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
2-methoxy-1-methylethyl-acetate	108-65-6	50	100	548	274
Hexamethylene-1,6-diisocyanate homopolymer	28182-81-2			0.07	0.02
Xylene	1330-20-7	50	100	441	220
Ethylbenzene	100-41-4	100	125	552	441
Hexamethylene diisocyanate	822-06-0			0.07	0.02
2-methoxypropyl acetate	70657-70-4				
Dibutyltin dilaurate	77-58-7				

Name	CAS-No.	OEL Note
2-methoxy-1-methylethyl-acetate	108-65-6	
Hexamethylene-1,6-diisocyanate homopolymer	28182-81-2	
Xylene	1330-20-7	
Ethylbenzene	100-41-4	
Hexamethylene diisocyanate	822-06-0	Isocyanates, all (as - NCO)
2-methoxypropyl acetate	70657-70-4	
Dibutyltin dilaurate	77-58-7	

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Preferably a compressed airline breathing apparatus. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. In case of insufficient ventilation wear suitable respiratory equipment. Respirator with filter for organic vapor.

EYE PROTECTION: Eye wash bottle with pure water. Safety goggles. Safety glasses with side-shields conforming to EN166.

HAND PROTECTION: Solvent-resistant gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Follow the skin protection plan. Long sleeved clothing. Remove and wash contaminated clothing before re-use. Flame retardant antistatic protective clothingProtective suit. Remove contaminated clothing and protective equipment before entering eating areas.

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: As a rule, at least 10 air changes per hour are recommended at the workplace. Avoid contact with skin, eyes and clothing. Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Chemical Name:

2-methoxy-1-methylethyl-acetate

EC No.:	CAS-No.:
203-603-9	108-65-6

DNELs - Derived no effect level

	Workers			Consumers				
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required						1.67 mg/kg	
Inhalation			275 mg/m ³				33 mg/m ³	
Dermal				153.5 mg/kg				54.8 mg/kg

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.635 mg/l
Fresh water sediments	3.29 mg/kg
Marine water	0.0635 mg/l
Marine sediments	0.329 mg/kg
Food chain	
Microorganisms in sewage treatment	100 mg/l
soil (agricultural)	0.29 mg/kg
Air	

Chemical Name:

Hexamethylene-1,6-diisocyanate homopolymer

EC No.:	CAS-No.:
500-060-2	28182-81-2

DNELs - Derived no effect level

	Workers				Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral		Not required						
Inhalation	1 mg/m ³		0.5 mg/m ³					
Dermal								

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.199 mg/l
Fresh water sediments	44551 mg/kg
Marine water	0.0199 mg/l
Marine sediments	4455 mg/kg
Food chain	
Microorganisms in sewage treatment	100 mg/l
soil (agricultural)	8884 mg/kg
Air	

Chemical Name:

Xylene	
EC No.:	CAS-No.:
215-535-7	1330-20-7

DNELs - Derived no effect level

	Workers				Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required						1.6 mg/kg	
Inhalation	289 mg/m ³	289 mg/m ³	77 mg/m ³	77 mg/m ³	174 mg/m ³	174 mg/m ³		14.8 mg/m ³
Dermal	174 mg/m ³	-		-				108 mg/kg

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.327 mg/l
Fresh water sediments	12.46 mg/kg
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment	6.58 mg/l
soil (agricultural)	2.31 mg/kg
Air	

Chemical Name:

Hexamethylene diisocyanate	
EC No.:	CAS-No.:
212-485-8	822-06-0

DNELs - Derived no effect level

	Workers				Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required				· ·		· · · •	
Inhalation		0.07 mg/m ³	0.035 mg/m ³	0.035 mg/m ³				
Dermal					-			

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.0774 mg/l
Fresh water sediments	0.01334 mg/kg
Marine water	0.00774 mg/l
Marine sediments	0.001344
Food chain	
Microorganisms in sewage treatment	8.42 mg/l
soil (agricultural)	0.026 mg/kg
Air	

SECTION 9: Physical and Chemical Properties

9.1	Information on basic physical and chemical p Appearance:	p roperties yellow
	Physical State	Liquid
	Odor	solvent
	Odor threshold	Not determined
	рН	Not determined
	Melting point / freezing point (°C)	Not determined
	Boiling point/range (°C)	136 - N.D.
	Flash Point, (°C)	40
	Evaporation rate	Not determined
	Flammability (solid, gas)	Not determined
	Upper/lower flammability or explosive limits	Not determined
	Vapour Pressure	7 - 9 hPa (Xylene at 20°C)
	Vapour density	Not determined
	Relative density	1.03 at 20°C
	Solubility in / Miscibility with water	Reacts with water
	Partition coefficient: n-octanol/water	Not determined
	Auto-ignition temperature (°C)	460
	Decomposition temperature (°C)	Not determined
	Viscosity	250 mPa.s at 23°C
	Explosive properties	

Not determined

Oxidising properties

Not applicable

9.2 Other information

VOC Content g/l:

<600

This is a calculated maximum VOC content for the mixed ready to use product (to Directive 2004/42/EC).

SECTION 10: Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions. Explosive reaction may occur on heating or burning.

10.2 Chemical stability

Stable under recommended storage conditions. Risk of ignition.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Polymerisation occurs when exposed to white light, ultraviolet light or heat. Heat, flames and sparks. Direct sources of heat. Strong sunlight for prolonged periods. Exposure to sunlight.

10.5 Incompatible materials

Do not store together with oxidizing and self-igniting products. Oxidizing agents. Strong oxidizing agents. Amines. Reducing agents. Heavy metal salts. Avoid radical-forming starting agents, peroxides and reactive metals.

10.6 Hazardous decomposition products

In case of fire **hazardous decomposition products** may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). No dangerous reaction known under conditions of normal use.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:	
Oral LD50:	No Information
Inhalation LC50:	No Information
Irritation:	No information available.
Corrosivity:	No information available.
Sensitization:	Prolonged contact with the skin may cause tanning and irritant effects. Animal tests and other research indicate that skin contact with diisocyanates can play a role in causing isocyanate sensitization and respiratory reaction.
Repeated dose toxicity:	No information available.
Carcinogenicity:	No information available.
Mutagenicity:	No information available.
Toxicity for reproduction:	No information available.
STOT-single exposure:	No information available.

Aspiration hazard:

STOT-repeated exposure:

Ire: No information available.

Over-exposure, especially when spraying coatings containing isocyanates without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50
108-65-6	2-methoxy-1-methylethyl-acetate	8532 mg/kg (rat)	>5000 mg/kg (rat)	1105 mg/m³, 4hr
28182-81-2	Hexamethylene-1,6-diisocyanate homopolymer	> 2500 mg/kg (rat)	> 2001 mg/kg (rat)	18500 mg/kg
1330-20-7	Xylene	4300 mg/kg (rat)	2000 mg/kg (rabbit)	6350 ppm, 4 hrs (rat)
100-41-4	Ethylbenzene	3500 mg/kg (rat)	5000 mg/kg (rabbit)	
822-06-0	Hexamethylene diisocyanate	959 mg/kg (rat)	>7000 mg/kg (rat)	0.124 mg/l, 4 hrs (rat)
77-58-7	Dibutyltin dilaurate	2001 mg/kg (rat)		

Additional Information:

In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

SECTION 12: Ecological Information

12.1 Toxicity:

	EC50 48hr (Daphnia):	No information
	IC50 72hr (Algae):	No information
	LC50 96hr (fish):	No information
12.2	Persistence and degradability:	No information
12.3	Bioaccumulative potential:	No information
12.4	Mobility in soil:	No information
12.5	Results of PBT and vPvB assessment:	The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.
12.6	Other adverse effects:	Do not allow to escape into waterways, waste water or soil. The resin reacts with

Do not allow to escape into waterways, waste water or soil. The resin reacts with water at the interface forming CO2 and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water-soluble solvents. Previous experience shows that polyurea is inert and non-degradable.

CAS-No.	Name According to EEC	<u>EC50 48hr</u>	<u>IC50 72hr</u>	LC50 96hr
108-65-6	2-methoxy-1-methylethyl-acetate	500 mg/l	No information	161 mg/l (Pimephales promelas)
28182-81-2	Hexamethylene-1,6-diisocyanate homopolymer	> 100 mg/l	> 1000 mg/l	> 100 mg/l (danio rerio)
1330-20-7	Xylene	No information	No information	13.4 mg/l (pimephales promelas)
100-41-4	Ethylbenzene	1.8 mg/l	4.6 mg/l	4.2 mg/l (Oncorhynchus mykiss)
822-06-0	Hexamethylene diisocyanate	No information	>77.4 mg/l	No information
70657-70-4	2-methoxypropyl acetate	No information	No information	
77-58-7	Dibutyltin dilaurate	No information	No information	

SECTION 13: Disposal Considerations

13.1 WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. Dispose of as hazardous waste in compliance with local and national regulations. Container hazardous when empty. Empty containers should be taken to an approved waste handling site for recycling or disposal.

European Waste Code:	080501*
Packaging Waste Code:	150110

SECTION 14: Transport Information

14.1	UN number	UN1866
14.2	UN proper shipping name	Resin solution
	Technical name	(Xylene/ 2-methoxy-1-methylethyl acetate mixture)
14.3	Transport hazard class(es)	3
	Subsidiary shipping hazard	Not applicable
14.4	Packing group	III
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
	EmS-No.:	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable

SECTION 15: Regulatory Information

^{15.1} Safety, health and environmental regulations/legislation for the substance or mixture:

National Regulations:		
Denmark Product Registration Number:	Not available	
Danish MAL Code:	Not available	
Danish MAL Code - Mixture:	Not available	
Sweden Product Registration Number:	Not available	
Norway Product Registration Number:	Not available	
WGK Class:	Not available	

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.

H304	May be fatal if swallowed and enters airways.
H312	Harmful 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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Reasons for revision

Substance and/or Product Properties Changed in Section(s): 03 - Composition / Info on Ingredients 08 - Exposure Controls/Personal Protection

11 - Toxicological Information

14 - Transportation Information

Substance Chemical Name Changed Composition Information Changed Statement(s) Changed

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark; European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830; European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);

EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds

g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as
modified by the Pr	cotocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.