2015/830 - Europe

Date of issue/ Date of : 10/29/2018 Date of previous issue : 2/3/2017

revision



## SAFETY DATA SHEET

**HARDENER 008 5605** 

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : HARDENER 008 5605

Product description : Hardener.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Painting work

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer or Distributor** 

Tikkurila Oyj P.O. Box 53 FI-01301 VANTAA FINI AND

Telephone +358 20 191 2000

e-mail address of person : Tikkurila Oyj, responsible for this SDS Product Safety,

e-mail: productsafety@tikkurila.com

#### 1.4 Emergency telephone number

Telephone number : 112

(24h)

**Supplier or Manufacturer** 

Telephone number : Tikkurila Oyj

+358 20 191 2000 (GMT +2) Mon-Fri 8-16

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Fam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

#### 2.2 Label elements

Hazard pictograms









Signal word : Danger

**Version** : 2.02

Date of issue/Date of revision 29.10.2018 Date of previous issue 03.02.2017. HARDENER 008 5605

Hazard statements : ►226 - Flammable liquid and vapor.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

General : Not applicable.

Prevention: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 - Avoid breathing mist/vapors/spray.

P280 - Wear protective gloves/clothing and eye/face protection. P284 - In case of inadequate ventilation wear respiratory protection.

Response : F301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or physician.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients : Reaction mass of m-xylene, o-xylene, p-xylene and ethylbenzene

2,4,6-tris(dimethylaminomethyl)phenol

triethylenetetramine

bis[(dimethylamino)methyl]phenol

Supplemental label

elements

: Not applicable.

#### 2.3 Other hazards

Other hazards which do not result in classification

: None known.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures : Mixture

			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
Reaction mass of m-xylene, o-xylene, p-xylene and ethylbenzene	REACH #: 01-2119488216-32, 01-2119555267-33 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥25 - ≤50	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	С
Fatty acids, tall-oil, dimers, polymers with tall-oil fatty acids and triethylenetetramine	CAS: 68915-18-4	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≥10 - ≤19	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-
triethylenetetramine	REACH #: 01-2119487919-13 EC: 203-950-6 CAS: 112-24-3	≤4	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-
bis[(dimethylamino)methyl]phenol	REACH #: 01-2119560597-27 EC: 275-162-0 CAS: 71074-89-0	≤3	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	-

Version : 2.02 2/11

Date of issue/Date of revision	29.10.2018 Date of previous issue	03.02.2017. HARDENER 008 5605	
		See Section 16 for the full text of the H statements declared above.	

<sup>\*)</sup> The REACH numbers of Reaction mass of m-xylene and o-xylene and p-xylene and ethylbenzene are 01-2119488216-32 and 01-2119555267-33.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Show this safety data sheet or label to the doctor if possible.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of lukewarm water, keeping eyelids open. Continue to rinse for at least 20 minutes. Get medical attention immediately. Continue rinsing until medical attention can be

obtained.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel. Get medical attention.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners. In case

of chemical burns, get medical attention as soon as possible.

Ingestion : If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Remove to fresh air and keep

at rest in a position comfortable for breathing. Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

causes severe skin burns and eye damage.

May cause damage to organs through prolonged or repeated exposure.

May cause respiratory irritation.

May cause an allergic skin reaction.

Inhalation of vapours may cause dizziness, headache and nausea.

See Section 11 for more detailed information on health effects and symptoms.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO<sub>2</sub>, powders or water spray/mist.

Unsuitable extinguishing media

: Do not use a direct water jet that could spread the fire.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapor. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Version : 2.02 3/11

Hazardous combustion products

: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

: Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Do not breathe vapor or mist. Do not get in eyes or on skin. Put on appropriate personal protective equipment (see Section 8).

6.2 Environmental precautions

: Do not allow to enter drains, water courses or soil.

6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

: Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used. Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid contact with skin and eyes. Avoid inhalation of dust from sanding. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Wear appropriate respirator when ventilation is inadequate. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

: Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature is +5°C ...+25°C. Store in accordance with local regulations.

7.3 Specific end use(s)

: None.

Version : 2.02 4/11

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Reaction mass of m-xylene, o-xylene, p-xylene and ethylbenzene	EU OEL (Europe, 2/2017). Absorbed through skin. Notes: list of indicative occupational exposure limit values  TWA: 50 ppm 8 hours.  TWA: 221 mg/m³ 8 hours.  STEL: 100 ppm 15 minutes.  STEL: 442 mg/m³ 15 minutes.

Additional information

Ethylbenzene

EU OEL (Europe, 12/2009). Absorbed through skin.

TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes.

Please check your local legislation for national OEL value for ethylbenzene.

procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**DNELs/DMELs** 

No DNELs/DMELs available.

**PNECs** 

No PNECs available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof ventilation equipment. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn (see Personal protection for both components). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

#### Individual protection measures

Eye/face protection : Wear eye/face protection (EN166).

: Always wear approved protective gloves against chemicals. Gloves should be Hand protection

replaced regularly and if there is any sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage,

maintenance and replacement must be followed.

Recommended glove material (EN374):

< 1 hour (breakthrough time): nitrile rubber, butyl rubber

> 8 hours (breakthrough time): laminated foil

Not recommended: PVC or natural rubber (latex) gloves

: Wear suitable protective clothing. This product is classified as flammable. If Skin protection necessary, personnel should wear antistatic clothing made of natural fibers or of

high-temperature-resistant synthetic fibers.

Respiratory protection : If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist. During spray-application use respirators with combination filter A/P3

(EN405:2001). Wear a half mask or full face respirator with gas and vapor filter A and dust filter P2 during sanding (EN140:1998, EN405:2001). During continuous and long-term work the use of motor-driven or air-fed respirators is recommended (EN12941:1998). Be sure to use an approved/certified respirator or equivalent.

Check that mask fits tightly and change filter regularly.

Version : 2.02

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Clear.
Odor : Strong.

Odor threshold : Not relevant for the hazard assessment of the product.

PH : Not relevant for the hazard assessment of the product.

Melting point/freezing point : -94.96°C (xylene)
Initial boiling point and : 136.16°C (xylene)

boiling range

Flash point : 25°C (xylene)

Evaporation rate : 0.77 (butyl acetate = 1) (xylene)
Flammability (solid, gas) : Not applicable. Product is a liquid.

Upper/lower flammability or : Lower: 0.8% (xylene)

explosive limits Upper: 6.7% (xylene)

Vapor pressure : 0.89 kPa [room temperature] (xylene)

Vapor density : 3.7 (xylene)

Density : 0.95 g/cm³

Solubility(ies) : insoluble in water.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : 432°C (xylene)

**Decomposition temperature**: Not relevant for the hazard assessment of the product.

Viscosity : Not relevant for the hazard assessment of the product.

Explosive properties : No explosive ingredients present.

Oxidizing properties : No oxidizing ingredients present.

#### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : See Section 10.5.

**10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: May present an explosion hazard when material is suspended in air in confined areas or equipment and subjected to spark, heat or flame.

**10.4 Conditions to avoid** : Avoid extreme heat and freezing. Avoid all possible sources of ignition (spark or

flame).

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents strong acids strong alkalis

10.6 Hazardous decomposition products

When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

**Version** : 2.02 6/11

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

There is no testdata available on the product itself.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Long term exposure causes irritation of respiratory system and mucous membranes of nose and throat. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Prolonged contact can cause severe irritation or even burns. The liquid splashed in the eyes may cause irreversible damage.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Z,4,6-tris (dimethylaminomethyl) phenol	LD50 Oral	Rat	1673 mg/kg	-
triethylenetetramine	LD50 Dermal	Rabbit	550 mg/kg	-

Not classified.

Irritation/Corrosion

Causes severe skin burns and eye damage.

Sensitization

May cause an allergic skin reaction.

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Teratogenicity

Not classified.

Specific target organ toxicity (single exposure)

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** 

Not classified.

## **SECTION 12: Ecological information**

Ecological testing has not been conducted on this product.

Do not allow to enter drains, water courses or soil.

The product is not classified as environmentally hazardous according to Regulation (EC) 1272/2008.

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2,4,6-tris (dimethylaminomethyl) phenol	Acute EC50 84 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
triethylenetetramine	EC50 31.1 mg/l	Daphnia	48 hours

Version : 2.02 7/11

Date of issue/Date of revision	29.10.2018 Date of previous issue	03.02.2017.	HARDENER 008 5605	

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
2,4,6-tris (dimethylaminomethyl) phenol	OECD 301D	4 % - Not r	eadily - 28 days	2 mg/l		Activated sludge
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
2,4,6-tris (dimethylaminomethyl) phenol	-		-		Not rea	dily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
rethylenetetramine	-1.66 to -1.4	-	low
2,4,6-tris (dimethylaminomethyl) phenol	0.219	-	low
Reaction mass of m-xylene, o-xylene, p-xylene and ethylbenzene	3.12	8.1 to 25.9	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **12.6 Other adverse effects** : Not available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: Gather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

#### European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### **Packaging**

Methods of disposal : Empty packaging should be recycled or disposed of in accordance with national

regulations.

Special precautions : None.

**Version** : 2.02 8/11

### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	<b>☑</b> N3469	<b>☑</b> N3469	UN3469
14.2 UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	Paint related material, flammable, corrosive
14.3 Transport hazard class(es)	<b>፮</b> (8)	<b>፮</b> (8)	3 (8)
14.4 Packing group	III	Ш	III
14.5 Environmental hazards	No.	No.	No.

#### **Additional information**

ADR/RID : Mazard identification number 38

**Limited quantity** 5 L

Special provisions 163, 367

Tunnel code (D/E)

**IMDG**: Emergency schedules F-E, S-C

Special provisions 163, 223, 367

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 5 L.. Packaging instructions: 354.

Cargo Aircraft Only: 60 L.. Packaging instructions: 365. Limited Quantities -

Passenger Aircraft: 1 L.. Packaging instructions: Y342.

Special provisions A3, A72, A192, A803

14.6 Special precautions for

user

: **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

: Not available.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations

**Europe inventory**: Not determined.

15.2 Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

Version : 2.02 9/11

#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

**Justification** 

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226On basis of test dataSkin Corr. 1B, H314Calculation methodEye Dam. 1, H318Calculation methodSkin Sens. 1, H317Calculation methodSTOT SE 3, H335Calculation methodSTOT RE 2, H373Calculation method

Classification

Full text of abbreviated H

statements

: H226 Flammable liquid and vapor.

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.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4
Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4
Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 3

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

Skin Corr. 1B, H314
Skin Corr. 1C, H314
Skin Corr. 1C, H314
Skin Irrit. 2, H315
Skin Irrit. 2, H315
Skin Sons 1, H317
Skin Sons 1, H317

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
Skin Sens. 1B, H317 SKIN SENSITIZATION - Category 1B
STOT BE 2, H373

STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) (Respiratory tract irritation) - Category 3

Date of issue/ Date of

revision

: 10/29/2018

Date of previous issue : 2/3/2017 Version : 2.02

Notice to reader

Version : 2.02 10/11

03 02 2017

HARDENER 008 5605

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Version : 2.02 11/11