(in accordance with Regulation (EU) 2015/830)

# **MAXEPOX TAR-F (Comp. B)**

Version: 7 Page 1 of 10
Revision date: 21/01/2017 Print date: 21/01/2017



## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

#### 1.1 Product identifier.

Product Name: MAXEPOX TAR-F (Comp. B)

## 1.2 Relevant identified uses of the mixture and uses advised against.

Curing agent for epoxy system

### Uses advised against:

Uses other than those recommended.

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

Company: DRIZORO, S.A.U.

Address: C/ Primavera, 50 - 52 Parque Industrial Las Monjas

City: 28850 Torrejón de Ardoz

 Province:
 Madrid (Spain)

 Telephone:
 +34 91 676 66 76

 Fax:
 +34 91 675 11 31

 E-mail:
 info@drizoro.com

1.4 Emergency telephone number: +34 91 676 66 76 (Only available during office hours)

## **SECTION 2: HAZARDS IDENTIFICATION.**

## 2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

Acute Tox. 4: Harmful if swallowed.

Aquatic Chronic  $\bf 3$ : Harmful to aquatic life with long lasting effects.

Eye Dam. 1 : Causes serious eye damage. Repr. 2 : Suspected of damaging fertility.

Skin Corr. 1A: Causes severe skin burns and eye damage.

Skin Sens. 1: May cause an allergic skin reaction.

### 2.2 Label elements.

## Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:







### Signal Word:

### **Danger**

## H statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

H361fSuspected of damaging fertility.

H412 Harmful to aquatic life with long lasting effects.

### P statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash ... thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

(in accordance with Regulation (EU) 2015/830)

## **MAXEPOX TAR-F (Comp. B)**



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/doctor/... P321 Specific treatment (see ... on this label).

Contains: benzyl alcohol bisphenol A, 4,4'-isopropylidenediphenol m-phenylenebis(methylamine) trimethylhexane-1,6-diamine

#### 2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.**

### 3.1 Substances.

Not Applicable.

#### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

			(*)Classification No 127	
Identifiers	Name	Concentrate	Classification	specific concentration limit
Index No: 603-057- 00-5 CAS No: 100-51-6 EC No: 202-859-9 Registration No: 01- 2119492630-38-XXXX	benzyl alcohol	1 - 50 %	Acute Tox. 4 *, H332 - Acute Tox. 4 *, H302	-
CAS No: 25620-58-0 EC No: 247-134-8	trimethylhexane-1,6-diamine	25 - 50 %	Acute Tox. 4, H302 - Aquatic Chronic 3, H412 - Skin Corr. 1B, H314 - Skin Sens. 1, H317	-
Index No: 604-030- 00-0 CAS No: 80-05-7 EC No: 201-245-8 Registration No: 01- 2119457856-23-XXXX	[1] bisphenol A, 4,4'-isopropylidenediphenol	3 - 20 %	Eye Dam. 1, H318 - Repr. 2, H361f*** - STOT SE 3, H335 - Skin Sens. 1, H317	-
CAS No: 1477-55-0 EC No: 216-032-5 Registration No: 01- 2119480150-50-XXXX	m-phenylenebis(methylamine)	5 - 25 %	Acute Tox. 4, H302 - Aquatic Chronic 3, H412 - Skin Corr. 1A, H314 - Skin Sens. 1, H317	-

<sup>(\*)</sup> The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

## **SECTION 4: FIRST AID MEASURES.**

### 4.1 Description of first aid measures.

Construction Products

<sup>\*,\*\*\*</sup> See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

<sup>[1]</sup> Substance with a Community workplace exposure limit (see section 8.1).

(in accordance with Regulation (EU) 2015/830)

# **MAXEPOX TAR-F (Comp. B)**



Revision date: 21/01/2017



Page 3 of 10 Print date: 21/01/2017

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

#### **Inhalation**

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

### Eye contact

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

#### Skin contact

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

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

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

## **SECTION 5: FIREFIGHTING MEASURES.**

The product does not present any particular risk in case of fire.

## 5.1 Extinguishing media.

### Recommended extinguishing methods.

Extinguisher powder or  $CO_2$ . In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

### 5.2 Special hazards arising from the mixture.

### Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

## 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

## Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES.**

## 6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

### 6.2 Environmental precautions.

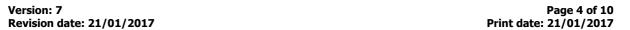
Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

### 6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate de-

(in accordance with Regulation (EU) 2015/830)

# **MAXEPOX TAR-F (Comp. B)**



DRIZOR

Construction Products

contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

#### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.

### **SECTION 7: HANDLING AND STORAGE.**

### 7.1 Precautions for safe handling.

For personal protection, see section  $\overline{8}$ . Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

### 7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

## 7.3 Specific end use(s).

Not available.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.**

### 8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m³
		European	Eight hours		10
bisphenol A, 4,4'-	80-05-7	Union [1]	Short term		
isopropylidenediphenol		United	Eight hours		10
		Kingdom [2]	Short term		

[1] According both Binding Occupational Esposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adobted by Health and Safety Executive. The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
benzyl alcohol	DNEL	Inhalation, Long-term, Systemic effects	90
N. CAS: 100-51-6	(Workers)		(mg/m³)
N. CE: 202-859-9			
high and A. 4.4/ is a new wild an adjust and	DNEL	Inhalation, Long-term, Local effects	10
bisphenol A, 4,4'-isopropylidenediphenol N. CAS: 80-05-7	(Workers)		(mg/m³)
N. CE: 201-245-8	DNEL	Inhalation, Long-term, Systemic effects	10
N. CE: 201-245-6	(Workers)		(mg/m³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable

minimum.

### 8.2 Exposure controls.

### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

(in accordance with Regulation (EU) 2015/830)

# **MAXEPOX TAR-F (Comp. B)**

Version: 7

Revision date: 21/01/2017



Page 5 of 10 Print date: 21/01/2017

Curing agent for epoxy system			
PPE: Characteristics: CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.  EN 136, EN 140, EN 405  Should not be stored in places exposed to high temperatures and damp environments before attention should be paid to the state of the inhalation and exhalation valves in the face adaptor Read carefully the manufacturer's instructions regarding the equipment's use and maintenance the necessary filters to the equipment according to the specific nature of the risk (Particles and P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.  A2  Hand protection:  PPE: Non-disposable protective gloves against chemicals.  «CE» marking, category III. Check the list of chemicals for which the glove has been tested.  EN 374-1, En 374-2, EN 374-3, EN 420  A schedule for the periodical replacement of gloves should be established in order to guaranteer replacement before pollutants permeate them. The use of contaminated gloves could be more than not using gloves, since the pollutant can gradually accumulate in the glove's material. They are to be replaced whenever tears, cracks or deformations are observed or when exterior reduce their strength.  Material: PVC (polyvinyl chloride) Breakthrough time (min.):  Breakthrough time (min.):			
Characteristics:  CEN standards:  Maintenance:  Observations:  PPE:  Characteristics:  CEN standards:  CEN standards:  CEN standards:  Maintenance:  Observations:  PPE:  Characteristics:  CEN standards:  CEN standards:  Cobservations:  PPE:  Characteristics:  CEN standards:  CEN standards:  Cobservations:  PPE:  Characteristics:  CEN standards:  CE			
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Maintenance: replacement before pollutants permeate them. The use of contaminated gloves could be more than not using gloves, since the pollutant can gradually accumulate in the glove's material. They are to be replaced whenever tears, cracks or deformations are observed or when exterior reduce their strength.  Material: PVC (polyvinyl chloride) Breakthrough time (min.): Material thickness (mm): 0,35			
Observations:  They are to be replaced whenever tears, cracks or deformations are observed or when exterior reduce their strength.  Material:  PVC (polyvinyl chloride)  Breakthrough time (min.):  Breakthrough time (min.):  O,35  Eye protection:			
Eye protection:   (min.):   480   (mm):   (mm):   (msin.):   (msin	dirt could		
If the product is handled correctly, no individual protection equipment is necessary.			
Skin protection:			
PPE: Chemical protective clothing  «CE» marking, category III. Clothing should fit properly. The level of protection	Ĭ.		
Characteristics: must be set according to a test parameter called BT (Breakthrough Time), which indicates how long it takes for the chemical to pass through the material.			
CEN standards: EN 464,EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034			
Maintenance: In order to guarantee uniform protection, follow the washing and maintenance instructions protection.	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.		
The protective clothing's design should facilitate correct positioning, staying in place without m the period of use expected, bearing in mind environmental factors as well as any movement or the user might adopt while carrying out the activity.			
PPE: Anti-static safety footwear against chemicals.			
Characteristics:   «CE» marking, category III. Check the list of chemicals against which the footwear is resistant.			
CEN standards: EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO 20345			
For correct maintenance of this kind of safety footwear, it is necessary to observe the instruction specified by the manufacturer. The footwear should be replaced as soon as any sign of damag observed.			
Observations: The footwear should be cleaned regularly and dried when damp, although it should not be placed to a source of heat in order to avoid any sharp changes in temperature.			

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.**

## 9.1 Information on basic physical and chemical properties.

Appearance: Turbid liquid with a characteristic odor

Colour: N.A./N.A. Odour:N.A./N.A.

Odour threshold: N.A./N.A.

pH:N.A./N.A.

Melting point: N.A./N.A.
Boiling Point: 206 °C
Flash point: 105 °C
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.

(in accordance with Regulation (EU) 2015/830)

# **MAXEPOX TAR-F (Comp. B)**

Version: 7

**Revision date: 21/01/2017** 



Page 6 of 10 Print date: 21/01/2017

Lower Explosive Limit: N.A./N.A. Upper Explosive Limit: N.A./N.A. Vapour pressure: N.A./N.A. Vapour density:N.A./N.A. Relative density:1,15 g/cm<sup>3</sup> Solubility:N.A./N.A. Liposolubility: N.A./N.A. Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: N.A./N.A. Decomposition temperature: N.A./N.A.

Viscosity: N.A./N.A.

Explosive properties: N.A./N.A. Oxidizing properties: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

### 9.2 Other information.

Pour point: N.A./N.A. Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

## **SECTION 10: STABILITY AND REACTIVITY.**

## 10.1 Reactivity.

The product does not present hazards by their reactivity.

### 10.2 Chemical stability.

Unstable in contact with:

- Acids.
- Bases.
- Oxidizing agents.

### 10.3 Possibility of hazardous reactions.

In certain conditions this may cause a polymerization reaction.

### 10.4 Conditions to avoid.

Avoid the following conditions:

- Heating.
- High temperature.
- Contact with incompatible materials.

## 10.5 Incompatible materials.

Avoid the following materials:

- Acids.
- Bases.
- Oxidizing agents.

### 10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- COx (carbon oxides).
- Organic compounds.
- Aromatics compounds.

## **SECTION 11: TOXICOLOGICAL INFORMATION.**

### 11.1 Information on toxicological effects.

There are no tested data available on the product.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

(in accordance with Regulation (EU) 2015/830)

# MAXEPOX TAR-F (Comp. B)

Version: 7

Page 7 of 10 Revision date: 21/01/2017 Print date: 21/01/2017

DRIZOR

Construction Products

a) acute toxicity;

Product classified:

Acute toxicity (Oral), Category 4: Harmful if swallowed.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Oral) = 526 mg/kg

b) skin corrosion/irritation;

Product classified:

Skin Corrosive, Category 1A: Causes severe skin burns and eye damage.

c) serious eye damage/irritation;

Product classified:

Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation;

Product classified:

Skin sensitiser, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Product classified:

Reproductive toxicant, Category 2: Suspected of damaging fertility or the unborn child.

h) STOT-single exposure;

Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;

Not conclusive data for classification.

j) aspiration hazard;

Not conclusive data for classification.

### **SECTION 12: ECOLOGICAL INFORMATION.**

## 12.1 Toxicity.

No information is available regarding the ecotoxicity of the substances present.

### 12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

### 12.3 Bioaccumulative potencial.

Information about the bioaccumulation of the substances present.

Name -		Bioaccumulation			
		Log Pow	BCF	NOECs	Level
benzyl alcohol		1,05	_	_	Very low
N. CAS: 100-51-6	EC No: 202-859-9	1,03	-	-	very low

## 12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

(in accordance with Regulation (EU) 2015/830)

# **MAXEPOX TAR-F (Comp. B)**

Version: 7

Revision date: 21/01/2017



Page 8 of 10 Print date: 21/01/2017

#### 12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

#### 12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

### **SECTION 13 DISPOSAL CONSIDERATIONS.**

### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

### **SECTION 14: TRANSPORT INFORMATION.**

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

**Land:** Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

<u>Sea:</u> Transport by ship: IMDG. Transport documentation: Bill of lading <u>Air</u>: Transport by plane: ICAO/IATA. Transport document: Airway bill.

# **14.1 UN number.** UN No: UN2735

## 14.2 UN proper shipping name.

Description:

ADR: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS TRIMETHYLHEXANE-1,6-DIAMINE / M-PHENYLENEBIS(METHYLAMINE)), 8, PG III, (E)

IMDG: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS TRIMETHYLHEXANE-1,6-DIAMINE / M-

PHENYLENEBIS(METHYLAMINE)), 8, PG III

ICAO: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS TRIMETHYLHEXANE-1,6-DIAMINE / M-PHENYLENEBIS(METHYLAMINE)), 8, PG III

### 14.3 Transport hazard class(es).

Class(es): 8

### 14.4 Packing group.

Packing group: III

### 14.5 Environmental hazards.

Marine pollutant: No

## 14.6 Special precautions for user.

Labels: 8



Hazard number: 80 ADR LQ: 5 L IMDG LQ: 5 L ICAO LQ: 1 L

(in accordance with Regulation (EU) 2015/830)

# **MAXEPOX TAR-F (Comp. B)**

 Version: 7
 Page 9 of 10

 Revision date: 21/01/2017
 Print date: 21/01/2017

DRIZOR

Construction Products

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-B

Proceed in accordance with point 6. IMDG Code segregation group: 18 Alkalis

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

The product is not transported in bulk.

## **SECTION 15: REGULATORY INFORMATION.**

### 15.1 Safety, health and environmental regulations/legislation specific for the mixture.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC)

VOC content (p/p): 0 % VOC content: 0 g/l

The product is not affected by Directive 2012/18/EU (SEVESO III).

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

### 15.2 Chemical safety assessment.

There has been no evaluation a chemical safety assessment of the product.

## **SECTION 16: OTHER INFORMATION.**

Complete text of the H phrases that appear in section 3:

Harmful if swallowed

11302	Haitiliui II Swalloweu.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effect

## Classification codes:

H3U3

Acute Tox. 4 [Inhalation] : Acute toxicity (Inhalation), Category 4

Acute Tox. 4 [Oral]: Acute toxicity (Oral), Category 4

Aquatic Chronic 3: Chronic effect to the aquatic environment, Category 3

Eye Dam. 1 : Serious eye damage, Category 1 Repr. 2 : Reproductive toxicant, Category 2

STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3

Skin Corr. 1A : Skin Corrosive, Category 1A Skin Corr. 1B : Skin Corrosive, Category 1B Skin Sens. 1 : Skin sensitiser, Category 1

Sections changed compared with the previous version:

1,2,3,4,7,11,14,16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

(in accordance with Regulation (EU) 2015/830)

# **MAXEPOX TAR-F (Comp. B)**

Version: 7 Page 10 of 10 Revision date: 21/01/2017 Print date: 21/01/2017



Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

BCF: Bioconcentration factor.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be

considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not

anticipated.

EC50: Half maximal effective concentration.

PPE: Personal protection equipment.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

Log Pow: Logarithm of the partition octanol-water. NOEC: No observed effect concentration.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

http://eur-lex.europa.eu/homepage.html

http://echa.europa.eu/ Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.