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

1.1 Product identifier	
Trade name	: LIMITAR
Authorisation number	: MAPP 16301
Active substance	: Trinexapac-ethyl (24.8 %) EC No.: 680-302-2 CAS No.: 95266-40-3 IUPAC Name: Ethyl 4-[cyclopropyl(hydroxy)methylene]-3,5- dioxocyclohexanecarboxylate
Substance No.	: 30000000870

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

Use of the	: Plant growth regulator for professional use.
Substance/Mixture	

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

Address	:	Belcrop BV Tiensestraat 300 3400 Landen Belgium
Telephone Telefax E-mail address Contact Point	:	+32 11 59 83 60 +32 11 59 83 61 info@belcrop.be

### 1.4 Emergency telephone number

Please call the local emergency number. Emergency number in Belgium (24h/24, 7d/7): +32 11 69 79 80

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

### Classification (Regulation (EC) No. 1272/2008)

Respiratory/skin sensitization, Category 1B Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure, Category 3 Reproductive toxicity, Category 2

Specific target organ toxicity - repeated

H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H361d: Suspected of damaging the unborn child.

H373: May cause damage to organs through

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effects.

prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting

exposure, Category 2

Hazardous to the aquatic environment - Acute hazard, Category 2

# 2.2 Label elements

## Labelling (Regulation (EC) No. 1272/2008)

Labelling (Regulation (EC) N	10.	. 121212000)	• •
Hazard pictograms	•		
Signal word	:	Warning	
Hazard statements	:	H317 H319 H335 H361d H373 H411 EUH401	May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. To avoid risks to human health and the environment, comply with the instructions for use.
Precautionary statements	:	P102 Prevention:	Keep out of reach of children.
		P261	Avoid breathing spray.
		P273	Avoid release to the environment.
		P280	Wear protective gloves/protective clothing/eye protection
		Response:	
		P308 + P313	IF exposed or concerned: Get medical advice/attention.
		P304 + P340	IF INHALED: Remove person to fresh air
			and keep comfortable for breathing.
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P337 + P313	If eye irritation persists: Get medical advice/attention.
		Disposal:	
		P501	Dispose of contents/container to a licensed
			hazardous-waste disposal contractor or
			collection site except for empty clean containers which can be disposed of as
			containers which can be disposed of as

# 2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

non-hazardous waste.

rsion 2.0	Belcrop BV	tel +32 11 59 83 60	
	Tiensestraat 300, 3400 Landen, Belgium	fax +32 11 59 83 61	

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

#### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS No. EC No. Index No. Registration No.	Classification (Regulation (EC) No. 1272/2008) ———————————————————————————————————	Conc. [%]	
Trinexapac-ethyl	95266-40-3 680-302-2 607-752-00-4 -	Skin Sens. 1B; H317 STOT RE 2; H373 Aquatic Chronic 1; H410  Multiplying factor (Chronic aquatic toxicity): 1	24.8	
Diacetone alcohol	123-42-2 204-626-7 603-016-00-1 -	Eye Irrit. 2; H319 STOT SE 3; H335 Repr. 2; H361d 	<= 25	
Substances with a workplace exposure limit				
Diacetone alcohol	123-42-2 204-626-7 603-016-00-1 -	Eye Irrit. 2; H319 STOT SE 3; H335 Repr. 2; H361d 	<= 25	

For the full text of the hazard statements mentioned in this Section, see Section 16.

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice	: Show this safety data sheet to the doctor in attendance.
If inhaled:	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Call a POISON CENTER or a doctor if you feel unwell.</li> </ul>

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In case of skin contact:	<ul> <li>Take off contaminated clothing.</li> <li>Wash with plenty of water for at least 15 minutes.</li> <li>If skin irritation or rash occurs: Get medical advice/attention.</li> <li>Contaminated work clothing should not be allowed out of the workplace.</li> <li>Wash contaminated clothing before reuse.</li> </ul>			
In case of eye contact:	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
	Rinse AWAY from the unaffected eye. If eye irritation persists: Get medical advice/attention.			
If swallowed:	: Rinse mouth. Call a POISON CENTER or a doctor.			
4.2 Most important symptoms and effects, both acute and delayed				
Symptoms	: No information available.			

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

Treatment	:	For specialist advice physicians should contact the poisons
		information service.

# SECTION 5. Fire-fighting measures

SECTION 5: Fire-lighting in	
5.1 Extinguishing media	
Suitable extinguishing media	: Water Carbon dioxide (CO2) Dry powder Polyvalent foam
Unsuitable extinguishing media	: Water spray jet
5.2 Special hazards arising from	the substance or mixture
Specific hazards during fire fighting	<ul> <li>Fire will produce dense black smoke containing hazardous combustion products (see Section 10).</li> <li>Exposure to decomposition products may be a hazard to health.</li> <li>Do not use a solid water stream as it may scatter and spread fire.</li> </ul>
5.3 Advice for firefighters	
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Other information	: Standard procedure for chemical fires. In the event of fire and/or explosion do not breathe fumes.
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Prevent fire extinguishing water from contaminating surface water or the ground water system.

# **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Use the indicated respiratory protection if the exposure limit is exceeded and/or in case of p (dust). Ensure adequate ventilation. Refer to protective measures listed in Section	product release
--	-----------------

## **6.2 Environmental precautions**

Environmental precautions	: Discharge into the environment must be avoided. Prevent further leakage or spillage.
	Prevent product from entering drains.
	Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up	: Soak up with inert absorbent material. Shovel into suitable container for disposal.
	Clean contaminated floors and objects thoroughly while observing environmental regulations.

# 6.4 Reference to other sections

See Section 8 for exposure controls/personal protection. See Section 13 for disposal considerations.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling	<ul> <li>Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product. Smoking, eating and drinking should be prohibited in the application area. Never mix concentrates directly. Avoid inhalation, ingestion and contact with skin and eyes. Avoid formation of dust and aerosols. For personal protection see Section 8. Avoid exceeding of the given occupational exposure limits (see Section 8).</li> </ul>
	(see Section 8).

Advice on protection against : Use explosion-proof equipment.

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fire and explosion Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

# 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	<ul> <li>Store between 0 °C and 40 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.</li> <li>Store in original container.</li> <li>Keep away from food, drink and animal feeding stuffs.</li> <li>Keep out of reach of children.</li> </ul>
---	--

## 7.3 Specific end use(s)

See Section 1.2.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Component	CAS No.	Form of exposure	Value type	Control parameters	Basis
Diacetone alcohol	123-42-2	Not specified	TWA	50 ppm 241 mg/m3	GB EH40
Diacetone alcohol	123-42-2	Not specified	STEL	75 ppm 362 mg/m3	GB EH40
Diacetone alcohol	123-42-2	Not specified	TWA	50 ppm 240 mg/m3	IE OEL

# 8.2 Exposure controls

## Personal protective equipment

Respiratory protection	<ul> <li>In the case of vapour formation use a respirator with an approved filter.</li> <li>Recommended Filter type:</li> <li>ABEK</li> </ul>
	<ul> <li>In the case of dust or aerosol formation use respirator with an approved filter. Recommended Filter type: P2FFP2</li> </ul>

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Hand protection	: Protective gloves complying with EN 374.		
Eye protection	: Safety glasses with side-shields conforming to EN 166.		
Skin and body protection	: Long-sleeved clothing. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.		
Hygiene measures	<ul> <li>Handle in accordance with good industrial hygiene and safety practice.</li> <li>Store personal protection equipment in a clean location away from the work area.</li> <li>Remove and wash contaminated clothing and gloves, including the inside, before re-use.</li> <li>Keep away from food and drink.</li> <li>Wash hands before eating, drinking, or smoking.</li> </ul>		
Protective measures	: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing. Always have on hand a first-aid kit, together with proper instructions.		
Environmental exposure controls			
General advice	<ul> <li>Discharge into the environment must be avoided.</li> <li>Prevent further leakage or spillage.</li> <li>Prevent product from entering drains.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>		
Soil	: Avoid subsoil penetration.		
Water	: Do not flush into surface water or sanitary sewer system. Retain and dispose of contaminated wash water.		

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

# 9.1 Information on basic physical and chemical properties

Appearance	: Liquid
Colour	: Light brown
Odour	: Amyl acetate-like
Flash point	: 66.6 °C
Ignition temperature	: Not auto-flammable

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Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Explosive properties	: Not explosive
Flammability	: Not applicable
Oxidising properties	: Not oxidising
Decomposition temperature	: ca. 310 °C (Active substance)
рН	: 3.49 Conc.: 1 %
Melting point/melting range	: 36.1 - 36.6 °C (Active substance)
Boiling point/boiling range	: 99.8 °C at 4.2 Pa (Active substance)
Vapour pressure	: 0.00216 Pa at 25 °C (Active substance)
Density	: 1.01 g/cm3 at 20 °C
Relative density	: 1.01 at 20 °C
Solubility in water	: 1.1 g/l at pH 3.5 at 25 °C (Active substance) 2.8 g/l at pH 4.9 at 25 °C (Active substance) 10.2 g/l at pH 5.5 at 25 °C (Active substance) 21.1 g/l at pH 8.2 at 25 °C (Active substance)
Partition coefficient n- octanol/water	: Log Pow: 1.5 at pH 5 at 25 °C
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		(Active substance) Log Pow: -0.29 at pH 6.9 at 25 °C (Active substance) Log Pow: -2.1 at pH 8.9 at 25 °C (Active substance)
Dynamic viscosity	:	6.95 - 11.43 mPa.s at  20 °C
Kinematic viscosity	:	Non-newtonian liquid
Relative vapour density	:	No data available

### 9.2 Other information

No additional information available.

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions**

None known.

## 10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

## 10.5 Incompatible materials

None.

## 10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. Other hazardous decomposition products may be formed.

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# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

# Acute toxicity

# **Component**

Acute oral toxicity <u>Trinexapac-ethyl</u> : 95266-40-3	LD50 Oral: 4,210 mg/kg Species: Rat Remarks: Single dose
Component	
Acute inhalation toxicity <u>Trinexapac-ethyl</u> : 95266-40-3	LD50: > 5.3 mg/l Exposure time: 4 h Species: Rat Remarks: Nose only.
<u>Component</u>	
Acute dermal toxicity <u>Trinexapac-ethyl</u> : 95266-40-3	LD50 Dermal: > 4,000 mg/kg Species: Rat Remarks: 24 h
Skin corrosion/irritation	
<u>Component</u>	
Skin irritation <u>Trinexapac-ethyl</u> : 95266-40-3	Species: Rabbit Results: No skin irritation Exposure time: 4 h
Serious eye damage/eye irritation	
<u>Component</u>	
Eye irritation <u>Trinexapac-ethyl</u> : 95266-40-3	Species: Rabbit Results: No eye irritation Remarks: Single dose
Respiratory or skin sensitization	
<u>Component</u>	
Sensitisation <u>Trinexapac-ethyl</u> :	Results: The product is a skin sensitizer, sub-category 1B.

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Germ cell mutagenicity		
<u>Component</u>		
<u>Trinexapac-ethyl</u> : 95266-40-3	In vivo tests did not show mutagenic effects.	
Carcinogenicity		
<u>Component</u>		
<u>Trinexapac-ethyl</u> 95266-40-3	: Animal testing did not show any carcinogenic effects., The substance is considered not likely to pose a carcinogenic risk to humans.	
Reproductive toxicity		
<u>Component</u>		
Effects on fertility		
<u>Trinexapac-ethyl</u> : 95266-40-3	Species: Rat General toxicity parent: NOAEL: 106.2 mg/kg bw/day General toxicity F1: NOAEL: 662.9 mg/kg bw/day General toxicity F2: NOAEL: 662.9 mg/kg bw/day	
Effects on foetal development		
<u>Trinexapac-ethyl</u> : 95266-40-3	Species: Rat General Toxicity Maternal: NOAEL: >= 1,000 mg/kg bw/day Developmental Toxicity: NOAEL: 200 mg/kg bw/day	
	Species: Rabbit General Toxicity Maternal: NOAEL: 60 mg/kg bw/day Developmental Toxicity: NOAEL: 60 mg/kg bw/day	
Specific target organ toxicity - si	ngle exposure	
<u>Component</u>		
<u>Trinexapac-ethyl</u> 95266-40-3	: Remarks: No data available	
Specific target organ toxicity - repeated exposure		
<u>Component</u>		
<u>Trinexapac-ethyl</u> 95266-40-3	: Remarks: No data available	



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### Aspiration hazard

**Component** 

Trinexapac-ethyl 95266-40-3 : No data available

# 11.2 Information on other hazards

# **Endocrine disrupting properties**

### Product:

Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at
	levels of 0.1% or higher.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

**Product** 

110000	
Toxicity to fish	: LC50: 67.265 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (Rainbow trout)
<u>Product</u>	
Toxicity to daphnia and other aquatic invertebrates.	EC50: 30.09 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
<u>Product</u>	
Toxicity to algae and aquatic plants	: ErC50: 150.985 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (Green algae)
	: ErC50: 13.4 mg/l Exposure time: 14 d Species: Lemna gibba (Gibbous duckweed)
<u>Component</u>	

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Multiplying factor Chronic aquatic toxicity

<u>Trinexapac-ethyl</u> : 1 95266-40-3

# **Component**

Toxicity to fish (Chronic toxicity)

Trinexapac-ethyl	: 0.41 mg/l
95266-40-3	Exposure time: 35 d
	Species: Pimephales promelas (Fathead minnow)
	Test Type: Flow-through test

## **Component**

Toxicity to daphnia and other aquatic invertebrates. (Chronic toxicity)

<u>Trinexapac-ethyl</u>	: 2.4 mg/l
95266-40-3	Exposure time: 21 d
	Species: Daphnia magna (Water flea)
	Test Type: Flow-through test

## 12.2 Persistence and degradability

#### <u>Component</u>

Stability in soil

Trinexapac-ethyl	:	DT50: 0.72 d
95266-40-3		

# **12.3 Bioaccumulative potential**

#### **Component**

Bioaccumulation

<u>Trinexapac-ethyl</u>	: Bioconcentration factor (BCF): 6
95266-40-3	Remarks: BCF unit = L/kg wwt for whole fish tissue.

### Component

Partition coefficient n-octanol/water

<u>Trinexapac-ethyl</u> 95266-40-3	:	Log Pow: 1.5 (25 °C) pH: 5
	:	Log Pow: -0.29 (25 °C) pH: 6.9

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Log Pow: -2.1 (25 °C) pH: 8.9

# 12.4 Mobility in soil

Trinexapac-ethyl 95266-40-3 : Koc: 60 Koc unit: mL/g

# 12.5 Results of PBT and vPvB assessment

### **Product**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## 12.6 Endocrine disrupting properties

#### Product:

Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at
	levels of 0.1% or higher.

### 12.7 Other adverse effects

### **Component**

Additional ecological information

<u>Trinexapac-ethyl</u> : No additional information available. 95266-40-3

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product	<ul> <li>Dispose of in accordance with the European Directives on waste and hazardous waste.</li> <li>Dispose of in accordance with local regulations.</li> <li>The product should not be allowed to enter drains, water courses or the soil.</li> </ul>
Contaminated packaging	<ul> <li>Triple rinse containers.</li> <li>Do not re-use empty containers.</li> <li>Store containers and offer for recycling of material when in accordance with the local regulations.</li> </ul>

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SECTION 14: Transport information			
14.1 UN number or ID number	14.1 UN number or ID number		
ADR	:	UN 3082	
IMDG	:	UN 3082	
ΙΑΤΑ	:	UN 3082	
14.2 UN proper shipping name			
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)	
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)	
ΙΑΤΑ	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)	

# 14.3 Transport hazard class(es)

<u>.</u>	
ADR	: 9
IMDG	: 9
ΙΑΤΑ	: 9
14.4 Packing group	
<b>ADR</b> Packing group Hazard identification No Labels Tunnel restriction code Limited quantity	: III : 90 : 9 : (-) : 5.00 L
IMDG	

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Packing group Labels EmS Code	: III : 9 : F-A, S-F
IATA (Cargo) Packing instruction (cargo aircraft) Maximum quantity Packing instruction (LQ) Packing group Labels	<ul> <li>964</li> <li>450.00 L</li> <li>Y964</li> <li>III</li> <li>Miscellaneous dangerous substance or article</li> </ul>
IATA (Passenger) Packing instruction (passenger aircraft) Maximum quantity Packing instruction (LQ) Packing group Labels	<ul> <li>964</li> <li>450.00 L</li> <li>Y964</li> <li>III</li> <li>Miscellaneous dangerous substance or article</li> </ul>

### 14.5 Environmental hazards

ADR Environmentally hazardous	:	Yes
IATA (Passenger) Environmentally hazardous	:	Yes
IATA (Cargo) Environmentally hazardous	:	Yes

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

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

Major Accident Hazard	:	Legislation on the control of major-accident hazards involving
Legislation		dangerous substances
		E2

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#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

# **SECTION 16: Other information**

Full text of hazard statements referred to under Section 2 and 3.

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE – Acute toxicity estimate; BCF - Bioconcentration factor; bw – Body weight; EC number – European Community number; ECx – Concentration associated with x % response; EmS – Emergency Schedule; ErCx – Concentration associated with x % growth rate response; GLP – Good Laboratory Practice; IATA – International Air Transport Association; IC50 – Half maximal inhibitory concentration; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50 % of a test population (Median Lethal Dose); M-factor – Multipying factor; N.O.S. – Not Otherwise Specified; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; OECD – Organization for Economic Co-operation and Development; OEL – Occupacional exposure limit; PBT – Persistent, Bioaccumulative and Toxic substance; SCL – Specific Concentration Limit; TWA – Time-weighted average; UFI – Unique formula identifier; UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

#### Other information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.