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

#### **1.1 Product identifier**

Trade name	:	GREEN-TI FILLER LIGHT GREY
Product code	:	L0040004

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

Use of the Substance/Mixture	: Pa	aints, varnishes and enamels
Chemical nature	: Di	ual compound primer (undercoat)

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

Company	:	Lechler SpA
		Via Cecilio 17
		22100 Como- CO-
Telephone	:	+39031586111
Telefax	:	+39031586206
E-mail address	:	safety@lechler.eu
Responsible/issuing person		

#### **1.4 Emergency telephone number**

Tel. +39-031-586301 - This telephone number is available during office hours only. (8.00-18.00)

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

### **2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Warning

: H226

Signal word

Hazard statements

Flammable liquid and vapour.

Precautionary statements	:	<b>Prevention:</b> P210	Keep away from heat, hot surfaces, sparks,
			open flames and other ignition sources. No smoking.

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P233 Response:

Response.	
P303 + P361 + P3	353 IF ON SKIN (or hair): Take off
	immediately all contaminated clothing.
	Rinse skin with water/shower.
P370 + P378	In case of fire: Use dry sand, dry chemical
	or alcohol-resistant foam to extinguish.
Storage:	
P403 + P235	Store in a well-ventilated place. Keep cool.
Disposal:	
P501	Dispose of contents/ container to an
	approved waste disposal plant.

Keep container tightly closed.

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#### **Additional Labelling:**

EUH208 Contains: methyl methacrylateMay produce an allergic reaction.

#### 2.3 Other hazards

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None known. The information required is contained in this Material Safety Data Sheet.

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

#### 3.2 Mixtures

Chemical nature

: Liquid pigmented dispersion

### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
xylene	1330-20-7 215-535-7 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Note C	>= 5 - < 10
Hydrocarbons, C9, aromatics	64742-95-6 918-668-5 01-2119455851-35-0006	Flam. Liq. 3; H226 STOT SE 3; H335, H336 Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066 Note P	>= 1 - < 2,5
methyl methacrylate	80-62-6 201-297-1 01-2119452498-28	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	>= 0,1 - < 1

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		Note D	
Substances with a wor	kplace exposure limit :		
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		>= 12,5 - < 15
n-butyl acetate	123-86-4 204-658-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336	>= 5 - < 10
Talc (Mg3H2(SiO3)4)	14807-96-6 238-877-9		>= 5 - < 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

### 4.1 Description of first aid measures

General advice	: When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.
If inhaled	<ul> <li>Remove to fresh air.</li> <li>Keep patient warm and at rest.</li> <li>If breathing is irregular or stopped, administer artificial respiration.</li> <li>If unconscious, place in recovery position and seek medical advice.</li> </ul>
In case of skin contact	<ul> <li>Take off all contaminated clothing immediately.</li> <li>Wash skin thoroughly with soap and water or use recognized skin cleanser.</li> <li>Do NOT use solvents or thinners.</li> <li>Put shower on working place</li> </ul>
In case of eye contact	<ul> <li>Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.</li> <li>Seek medical advice.</li> <li>Put eye-washer on working place</li> <li>Remove contact lenses.</li> </ul>
If swallowed	<ul> <li>If accidentally swallowed obtain immediate medical attention. Do NOT induce vomiting. Keep at rest.</li> </ul>

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

Symptoms	: No information available.
Risks	: No information available.

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

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Treatment	: The first aid procedure should be est with the doctor responsible for indust Seek medical advice.	

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media	<ul> <li>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</li> <li>Keep containers and surroundings cool with water spray.</li> </ul>
Unsuitable extinguishing media	: Do NOT use water jet.

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

Specific hazards during firefighting	<ul> <li>As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).</li> <li>Exposure to decomposition products may be a hazard to health.</li> <li>Cool closed containers exposed to fire with water spray.</li> <li>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.</li> <li>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.</li> </ul>
3 Advice for firefighters	

### 5.3 Advice for firefighters

Special protective equipment	:	Wear self-contained breathing apparatus for firefighting if
for firefighters		necessary.

# **SECTION 6: Accidental release measures**

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

Personal precautions	<ul> <li>Solvent vapours are heavier than air and may spread along floors.</li> <li>Ensure adequate ventilation.</li> <li>Use personal protective equipment.</li> <li>Evacuate personnel to safe areas.</li> <li>Keep people away from and upwind of spill/leak.</li> <li>Ventilate the area.</li> </ul>
6.2 Environmental precautions	

Environmental precautions	courses. If the product contaminates rivers and lakes or drains inform
	respective authorities.

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

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Methods for cleaning up	<ul> <li>Clean with detergents. Avoid solvents Contain and collect spillages with non- materials, e.g. sand, earth, vermiculite and place in a suitable container. The should be cleaned up immediately with decontaminant. One possible (flamma comprises water (45 parts by volume). (50 parts)/concentrated (d: 0.880) ammonia solution (5 parts). alternative is sodium carbonate (5 part</li> </ul>	-combustible absorbent e, diatomaceous earth e contaminated area h a suitable able) decontaminant /ethanol or isopropanol A non-flammable
	Pick up and transfer to properly labelle Clean contaminated surface thorough Dam up. Soak up with inert absorbent material hazardous waste.	ly.

### 6.4 Reference to other sections

Refer to section 15 for specific national regulation.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling	<ul> <li>Avoid exceeding the given occupational exposure limits (see section 8).</li> <li>Use only in area provided with appropriate exhaust ventilation.</li> <li>Avoid contact with skin, eyes and clothing.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Avoid inhalation of vapour or mist.</li> <li>For personal protection see section 8.</li> <li>Thoroughly mix before using</li> <li>After using, store in a well-sealed container</li> </ul>
Advice on protection against 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. When transferring from one container to another apply earthing measures and use conductive hose material. No sparking tools should be used. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. No smoking.

# 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	<ul> <li>Observe label precautions.</li> <li>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Solvent vapours are heavier than air and may spread along floors.</li> <li>Vapours may form explosive mixtures with air.</li> </ul>
	5

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		Electrical installations / working materials must comply with the technological safety standards. Keep away from sources of ignition - No smoking. Store between 5° an 35°C in a dry, well ventilated place away from source of heat, ignition and direct sunlight. Store in accordance with the particular national regulations.	
Advice on common storage	:	Keep away from oxidizing agents and materials.	strongly acid or alkaline
German storage class	:	3 Flammable liquids	
7.3 Specific end use(s)			
		This information is not available.	

SECTION 8: Exposure controls/personal protection

# 8.1 Control parameters

Components	C	AS-No.	Value	Control parameters	Update	Basis
titanium dioxide	1: 7	3463-67-	TWA	10 mg/m3	2014-03-01	ACGIH
n-butyl acetate	12	23-86-4	TWA	50 ppm	2016-03-01	ACGIH
			STEL	150 ppm	2016-03-01	ACGIH
Talc (Mg3H2(SiO3))4)	14 6	4807-96-	TWA	2 mg/m3	2013-03-01	ACGIH
xylenes	1.	330-20-7	TWA	50 ppm 221 mg/m3	2000-06-16	2000/39/EC
Further information	:	skin: Identi	fies the poss		ake through the skinIndic	ative
			STEL	100 ppm 442 mg/m3	2000-06-16	2000/39/EC
Further information	:	skin: Identi	fies the poss	ibility of significant upt	ake through the skinIndic	ative
methyl methacrylate	8	0-62-6	TWA	50 ppm	2009-12-19	2009/161/EU
Further information	:	Indicative				
			STEL	100 ppm	2009-12-19	2009/161/EU
Further information	:	Indicative				

DNEL xylene

: End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects Value: 65,3 mg/m3

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	End Use: Consumers Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 12,5 mg/kg
	End Use: Workers Exposure routes: Inhalation Potential health effects: Short-term local effects Value: 442 mg/kg
	End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 212 mg/kg
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 221 mg/m3
Hydrocarbons, C9, aromatics :	End Use: Consumers Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 11 mg/kg
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 32 mg/m3
	End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 11 mg/kg
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 150 mg/m3
	End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 25 mg/kg
methyl methacrylate :	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 208 mg/m3
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 208 mg/m3

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End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 1,5 mg/cm2

End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 13,67 mg/kg

End Use: Workers Exposure routes: Dermal Potential health effects: Acute local effects Value: 1,5 mg/cm2

End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 104 mg/m3

End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 74,3 mg/m3

End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 1,5 mg/cm2

End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 8,2 mg/kg

End Use: Consumers Exposure routes: Dermal Potential health effects: Acute local effects Value: 1,5 mg/cm2

: End Use: Workers Exposure routes: Inhalation Potential health effects: Local effects Value: 10 mg/m3

> End Use: Consumers Exposure routes: Ingestion Potential health effects: Specific effects Value: 700 ppm

: End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 102,34 mg/m3

titanium dioxide

n-butyl acetate

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End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 859,7 mg/m3

End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 859,7 mg/m3

End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 102,34 mg/m3

End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 960 mg/m3

End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 480 mg/m3

End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 960 mg/m3

End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 480 mg/m3

PNEC xylene

: Fresh water Value: 0,32 mg/l

> Intermittent use/release Value: 0,32 mg/l

Marine water Value: 0,32 mg/l

Fresh water sediment Value: 12,46 mg/kg

Marine sediment Value: 12,46 mg/kg

Soil Value: 2,31 mg/kg

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	Sewage treatment plant Value: 6,58 mg/l	
methyl methacrylate	: Fresh water Value: 0,94 mg/l	
	Marine water Value: 0,94 mg/l	
	Soil Value: 1,47 mg/kg	
	Sewage treatment plant Value: 10 mg/l	
	Fresh water sediment Value: 5,74 mg/kg	
	Intermittent use/release Value: 0,94 mg/l	
titanium dioxide	: Fresh water Value: > 1 mg/l	
	Fresh water sediment Value: >= 1000 mg/kg	
	Marine water Value: 0,127 mg/l	
	Marine sediment Value: >= 100 mg/kg	
	Soil Value: 100 mg/kg	
n-butyl acetate	: Fresh water Value: 0,18 mg/l	
	Intermittent use/release Value: 0,36 mg/l	
	Marine water Value: 0,01 mg/l	
	Fresh water sediment Value: 0,98 mg/kg	
	Marine sediment Value: 0,09 mg/kg	
	Soil Value: 0,09 mg/kg	

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Sewage treatment plant Value: 35,6 mg/l

### 8.2 Exposure controls

Personal protective equipment	
Respiratory protection :	Apply technical measures to comply with the occupational exposure limits. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time. Respirator with combination filter for vapour/particulate (EN 141)
Hand protection :	Solvent-resistant gloves (butyl-rubber) For prolonged or repeated contact use protective gloves. Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Skin should be washed after contact. Wash your hands and put on barrier creams
Eye protection :	Chemical resistant goggles must be worn.
Skin and body protection :	Skin should be washed after contact. Personnel should wear protective clothing. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
Environmental exposure controls	
General advice :	Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.

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

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

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Odour	: solvent-like	
Flash point	: > 23 - 55 °C	
Ignition temperature	: not determined	
Lower explosion limit	: No data available	
Upper explosion limit	: No data available	
Auto-ignition temperature	: Not applicable	
рН	: not determined	
Freezing point	: Not applicable	
Boiling point	: not determined	
Vapour pressure	: 1,000 hPa at 50 °C	
Density	: 1,6061 g/cm3	
Water solubility	: not determined	
Partition coefficient: n-	: No data available	
octanol/water Solubility in other solvents	: not determined	
Flow time	: 65 s 6 mm Method: ISO/DIN 2431 '84	
Relative vapour density	: Not applicable	
Evaporation rate	: not determined	
9.2 Other information		
Solids by weight	: 75,35 %	
Volatile organic compounds	: 24,64 %	

(VOC) content

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

None reasonably foreseeable.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions

: No dangerous reaction known under conditions of normal use.

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### 10.4 Conditions to avoid

Conditions to avoid	<ul> <li>Our products were manufactured in compliance with safety standards to avoid decomposition and degrading under the defined conditions.</li> <li>Taking the product type into account, it is advisable to leave the product in its original packaging thus avoiding transferring it.</li> </ul>

# 10.5 Incompatible materials

Materials to avoid	: Keep away from oxidizing agents, strongly alkaline and
	strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

Hazardous decomposition products	: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.
Thermal decomposition	: Not applicable

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

## 11.1 Information on toxicological effects

:	Acute toxicity estimate: > 20 mg/l, 4 h, vapour, Calculation method
:	Acute toxicity estimate: > 2.000 mg/kg, Calculation method
:	Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin., The product may be absorbed through the skin.
:	The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.
s :	
s : :	LD50: 3.592 mg/kg, Rat, OECD Test Guideline 401
:	LD50: 3.592 mg/kg, Rat, OECD Test Guideline 401 LD50: > 3.160 mg/kg, Rabbit, OECD Test Guideline 402
:	
	LD50: > 3.160 mg/kg, Rabbit, OECD Test Guideline 402 LD50: 10.760 mg/kg, Rat(female), OECD Test Guideline
	:

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#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Remarks: No data is available on the product itself.

Toxicity to fish Hydrocarbons, C9, aromatics	:	LC50: 9,2 mg/l Exposure time: 96 h
		Species: Oncorhynchus mykiss (rainbow trout)
methyl methacrylate	:	LC50: 326,4 - 426,9 mg/l Exposure time: 96 h
		Species: Poecilia reticulata (guppy)
		LC50: > 79 mg/l Exposure time: 96 h
		Species: Oncorhynchus mykiss (rainbow trout)
n-butyl acetate	:	LC50: 18 mg/l Exposure time: 96 h
		Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 203

### 12.2 Persistence and degradability

Biodegradability : No data available

#### **12.3 Bioaccumulative potential**

Bioaccumulation : No data available

### 12.4 Mobility in soil

Mobility : No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

Additional ecological : The product contains dangerous substances for the

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information		The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the		
SECTION 13: Disposal	considerations			

ion waste treatment methods	
Product	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Disposal together with normal waste is not allowed. Special disposal required according to local regulations.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.</li> <li>The following Waste Codes are only suggestions: 150110*</li> </ul>

# **SECTION 14: Transport information**

13.1 Waste treatment methods

### 14.1 UN number

ADR	:	UN 1263
IMDG	:	UN 1263
ΙΑΤΑ	:	UN 1263

# 14.2 Proper shipping name

ADR	PAINT
IMDG	PAINT
ΙΑΤΑ	Paint

# 14.3 Transport hazard class(es)

ADR	:	3
IMDG	:	3
ΙΑΤΑ	:	3

# 14.4 Packing group

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#### ADR

Packing group	:	111
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3
IMDG		
Packing group	:	III
Labels	:	3
EmS Code	:	F-E,S-E
ΙΑΤΑ		
Packing group	:	III
Labels	:	3
14.5 Environmental hazards		
ADR		
Environmentally hazardous	:	no
IMDG		
Marine pollutant	:	no
1474		
ΙΑΤΑ		
Environmentally hazardous	:	no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

REACH - Candidate List of : Not applicable Substances of Very High Concern for Authorisation (Article 59).

**REACH** - List of substances : Not applicable

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subject to authorisation (Annex XIV) REACH - Restrictions on the : 3 manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Regulation (EC) No 649/2012 : Not applicable of the European Parliament and the Council concerning the export and import of dangerous chemicals : 3-4 (1993) MAL-Code-Number 870-m3 air/10 g Storage class (TRGS 510) : 3: Flammable liquids Risk classification according : Exempt to VbF see user defined free text Water contaminating class : obviously hazardous to water (Germany) **VWVWS A4** 

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.2 Chemical safety assessment

No data is available on the product itself.

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

#### Full text of H-Statements referred to under sections 2 and 3.

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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H336	May cause drowsiness or dizziness.		
H411	Toxic to aquatic life with long lasting effects.		

List of references Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP)

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning 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 (Official Journal of the European Union L 396 from 30.12.2006, as amended). Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Key or legend to abbreviations and acronyms used in the safety data sheet

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP -Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO -International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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.

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