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

1.1 Product identifier

Trade name	:	HYDROFAN OCHRE YELLOW
Product code	:	LNHF0017

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

Use of the Substance/Mixture	:	Paints, varnishes and enamels
Chemical nature	:	Mono compound enamel - finish coat

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

2.2

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)

Long-term (chronic) aquatic h Category 3	aza	ard,	H412: effects	Harmful to aquatic life with long lasting
Label elements				
Labelling (REGULATION (E	C)	No 1272/20	08)	
Hazard statements	:	H412		Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Preventior P273 Disposal: P501	1:	Avoid release to the environment. Dispose of contents/ container to an approved waste disposal plant.

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Additional Labelling:

EUH208 Contains: 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

2.3 Other hazards

None known.

The information required is contained in this Material Safety Data Sheet.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Water pigmented dispersion

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
2-butoxyethanol	111-76-2 203-905-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10
2,5-Furandione, telomer with ethenylbenzene and (1- methylethyl)benzene, 3- (dimethylamino)propyl imide, imide with polyethylene- polypropylene glycol 2- aminopropyl Me ether, 2-[(C10-16- alkyloxy)methyl]oxirane -quaternized, benzoates (salts)	1431957-88-8	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
triethylamine	121-44-8 204-469-4 01-2119475467-26	Flam. Liq. 2; H225 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1A; H314 STOT SE 3; H335	>= 0,1 - < 1
2-dimethylaminoethanol	108-01-0 203-542-8 01-2119492298-24	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331	>= 0,1 - < 1

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		Acute Tox. 4; H312	
		Skin Corr. 1B; H314	
		STOT SE 3; H335	
2-methylisothiazol- 3(2H)-one	2682-20-4 220-239-6	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400	>= 0,0002 - < 0,0015
		Aquatic Chronic 1; H410 (Acute M=10) (Chronic M=1)	
reaction mass of 5- chloro-2-methyl-2H- isothiazol-3-one and 2- methyl-2H-isothiazol-3- one (3:1)	55965-84-9	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 (Acute M=100) (Chronic M=100)	>= 0,0002 - < 0,0015
Substances with a work			
chrome antimony titanium buff rutile	68186-90-3 269-052-1 01-2119491294-33		>= 1 - < 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	 Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	 Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. Put shower on working place
In case of eye contact	: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

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	Seek medical advice. Put eye-washer on working place Remove contact lenses.			
If swallowed	 If accidentally swallowed obtain immed Do NOT induce vomiting. Keep at rest. 	diate medical attention.		
4.2 Most important symptoms	and effects, both acute and delayed			
Symptoms	: No information available.			
Risks	: No information available.			
4.3 Indication of any immedia	4.3 Indication of any immediate medical attention and special treatment needed			
Treatment	. The first aid precedure should be esta	blished in consultation		

Treatment	: The first aid procedure should be established in consultation
	with the doctor responsible for industrial medicine.
	Seek medical advice.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

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

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
- : Use personal protective equipment.

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	Ventilate the area. Refer to protective measures listed in sections 7 and 8. Material can create slippery conditions.		
6.2 Environmental precautions			
Environmental precautions	: Try to prevent the material from entering drains or water courses.		
	If the product contaminates rivers and lakes or drains inform respective authorities.		
6.3 Methods and materials for cc	ntainment and cleaning up		
Methods for cleaning up	: Clean with detergents. Avoid solvents.		

Clean with detergents. Avoid solvents. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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	 Avoid exceeding the given occupational exposure limits (see section 8). Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Avoid inhalation of vapour or mist. For personal protection see section 8. Thoroughly mix before using After using, store in a well-sealed container

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Observe label precautions. Containers which are opened must be carefully researe kept upright to prevent leakage. Store in accordance with the particular national regul Store between 5° an 35°C in a dry, well ventilated pla from source of heat, ignition and direct sunlight. No smoking. Electrical installations / working materials must comp the technological safety standards.	ations. ace away
Advice on common storage	Keep away from oxidizing agents and strongly acid or materials.	r alkaline
German storage class	10 Combustible liquids	

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7.3 Specific end use(s)

: This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No	. Value	Control Update B		Basis
2-	111-76-2	TWA	20 ppm	2000-06-16	2000/39/EC
butoxyethanol			98 mg/m3		
Further information	: skin: lo	lentifies the pos	es the possibility of significant uptake through the skinIndicative		
		STEL	50 ppm	2000-06-16	2000/39/EC
			246 mg/m3		
Further information	: skin: lo	lentifies the pos	sibility of significant u	ptake through the skinli	ndicative
Chrome	68186-9)- TWA		2013-03-01	ACGIH
antimony	3		0,5 mg/m3		
titanium buff					
rutile					
Further	: antimo	ny			· · ·
information					
		TWA	10 mg/m3	2014-03-01	ACGIH
Further information	: Titaniu	m dioxide			
triethylamine	121-44-8	TWA	2 ppm 8,4 mg/m3	2000-06-16	2000/39/EC
Further information	: skin: lo	lentifies the pos	sibility of significant u	ptake through the skinli	ndicative
		STEL	3 ppm 12,6 mg/m3	2000-06-16	2000/39/EC
Further information	: skin: lo	in: Identifies the possibility of significant uptake through the skinIndicative			

DNEL triethylamine

: End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 12,6 mg/m3

End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 12,6 mg/m3

End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 12,1 mg/kg

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	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-term syster	nic effects
	Value: 8,4 mg/m3	
	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-term local	effects
	Value: 8,4 mg/m3	
DNEC		
PNEC triethylamine	: Fresh water	
	Value: 0,064 mg/l	
	Marine water	
	Value: 0,0064 mg/l	
	Intermittent use/release	
	Value: 0,064 mg/l	
	Fresh water sediment	
	Value: 0,1992 mg/kg	
	Soil	
	Value: 2,361 mg/kg	
	Sewage treatment plant	
	Value: 100 mg/l	
3.2 Exposure controls		
Personal protective equipment	nt	
Respiratory protection	: Apply technical measures to comply w	vith the occupational
Respiratory protection	exposure limits. This should be achieved by a good ge	eneral extraction and -if
	practically feasible- by the use of a loc If the occupational exposure limits car	nnot be met, in
	exceptional cases suitable respiratory worn only for a short period of time.	
	Respirator with combination filter for v	apour/particulate (EN

Hand protection : Latex gloves 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

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	conditions which differ from EN 374, co the CE approved gloves. Barrier creams may help to protect the they should however not be applied or occurred. Skin should be washed after contact. Wash your hands and put on barrier cr	e exposed areas of skin, nce exposure has
Eye protection	: Chemical resistant goggles must be we Ensure that eyewash stations and safe the workstation location.	
Skin and body protection	: Skin should be washed after contact. Wear suitable protective clothing.	
Environmental exposure control	S	
General advice	 Try to prevent the material from enterin courses. If the product contaminates rivers and respective authorities. 	•

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Odour	: liquid : solvent-like
Flash point	: > 63 - 100 °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	: 1,0874 g/cm3
Water solubility	: not determined
Partition coefficient: n-	: No data available

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octanol/water Solubility in other solvents	: not determined	
Flow time	: 59 s 6 mm Method: ISO/DIN 2431 '84	
Relative vapour density	: Not applicable	
Evaporation rate	: not determined	
9.2 Other information		
Solids by weight	: 27,15 %	
Volatile organic compounds (VOC) content	: 7,5 %	
Water content	: 65,34 %	
SECTION 10: Stability and re	eactivity	
10.1 Reactivity	-	
None reasonably foreseeable	3.	
10.2 Chemical stability		
The product is chemically sta	ıble.	
10.3 Possibility of hazardous rea	actions	
Hazardous reactions	: No dangerous reaction known under co	onditions of normal use.
10.4 Conditions to avoid		
Conditions to avoid	 Our products were manufactured in constandards to avoid decomposition and defined conditions. Taking the product type into account, it the product in its original packaging thuit. 	degrading under the is advisable to leave
10.5 Incompatible materials		
Materials to avoid	: Keep away from oxidizing agents, stror strongly acid materials in order to avoid	
10.6 Hazardous decomposition	products	
Hazardous decomposition products	: Carbon dioxide (CO2), carbon monoxic nitrogen (NOx), dense black smoke.	le (CO), oxides of
Thermal decomposition	: Not applicable	

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product		
Acute oral toxicity	: Acute toxicity estimate: > 2.000 mg/kg, Calculation method	
Acute inhalation toxicity	: Acute toxicity estimate: > 20 mg/l, 4 h, vapour, Calculation method	
Acute dermal toxicity	: Acute toxicity estimate: > 2.000 mg/kg, Calculation method	
Skin corrosion/irritation	: 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.	
Further information	: The concentration of each substance should be borne in mining in assessing the toxicological effects deriving from the preparation.	nd

Components:

2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene, 3- (dimethylamino)propyl imide, imide with polyethylene-polyp:			
Acute oral toxicity	: LD50: > 2.000 mg/kg, Rat(female), OECD Test Guideline 420, GLP: yes		
triethylamine :			
Acute oral toxicity	: LD50: 730 mg/kg, Rat, OECD Test Guideline 401		
Acute inhalation toxicity	: LC50: 3496 ppm, 1 h, Rat, OECD Test Guideline 403		
Acute dermal toxicity	: LD50: 580 mg/kg, Rabbit, OECD Test Guideline 402		
2-dimethylaminoethanol :			
Acute oral toxicity	: LD50: 1.183 mg/kg, Rat, OECD Test Guideline 401		
Acute inhalation toxicity	: LC50: 5,9 mg/l, 4 h, Rat, OECD Test Guideline 403		
Acute dermal toxicity	: LD50: 1.219 mg/kg, Rabbit, OECD Test Guideline 402		

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	:	Remarks: No data is available on the product itself.
2-methyl-2H-isothiazol-3-one 5-Chloro-2-methyl- 3(2H)isothiazolone mixt. with	:	10 100

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2-Methyl-3(2H)isothiazolone

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
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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 information	on e	The product contains dangerous substances for the environment (see chapter no 3). The concentration of each substance should be borne in mind
		in assessing the toxicological effects deriving from the preparation.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 Proper shipping name

ADR

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Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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 Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	3

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Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
MAL-Code-Number	:	1-3 (1993) 256-m3 air/10 g
Storage class (TRGS 510)	:	10: Combustible liquids
Risk classification according to VbF	:	Flash Point > 55 °C up to 100 °C, at 15 °C not miscible with water
Water contaminating class (Germany)	:	obviously hazardous to water Ordinance on facilities for handling substances that are hazardous to water (AwSV)
		Classification according to AwSV, Annex 1 (5.2)

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.

H225 H226 H301 H302 H310 H311 H312 H314 H315 H317 H318 H319 H330 H331 H332	Highly flammable liquid and vapour. Flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. Fatal in contact with skin. Toxic in contact with skin. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Fatal if inhaled. Toxic if inhaled. Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

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11440	Very texis to equation life with long locating offerete	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful 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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