## **Safety Data Sheet HYDROFAN HI-TECH CLEARCOAT**

Safety Data Sheet dated 21/12/2022 version 3



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

#### 1.1. Product identifier

Mixture identification:

Trade name: HYDROFAN HI-TECH CLEARCOAT

Trade code: L0HC0200

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

Recommended use: Coatings and paints, thinners, paint removers

Dual compound colourless clearcoat

Aqueous fluid solution

Professional uses

Uses advised against: N.A.

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

Company: Lechler SpA - Via Cecilio, 17 - 22100 Como - CO - Italy

Telephone: +39031586111 First Email: safety@lechler.eu

## 1.4. Emergency telephone number

UNITED KINGDOM: Emergency Number 0044 1606738600 - This telephone number is available during office hours only (8.45-16.45).

UNITED STATES OF AMERICA: Emergency Contact: Lechler SPA -Tel. +39-031-586301 (8.00-18.00).

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



## 2.1. Classification of the substance or mixture

## Regulation (EC) n. 1272/2008 (CLP)

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2 Causes serious eye irritation.

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

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects. Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

# Regulation (EC) No 1272/2008 (CLP):

#### Hazard pictograms and Signal Word



Warning

## **Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Date 03/04/2025 **Production Name** HYDROFAN HI-TECH CLEARCOAT Page n. 1 of 11 P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

#### **Contains**

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

## Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

Results of PBT and vPvB assessment Not a PBT, vPvB substance as per the criteria of the REACH Regulation. Endocrine disrupting properties-Toxicity 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. Endocrine disrupting properties-Ecotoxicity 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.

Other Hazards: No other hazards

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

#### 3.1. Substances

N.A.

# 3.2. Mixtures

Mixture identification: HYDROFAN HI-TECH CLEARCOAT

#### Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥5 - ≤7 %	3-butoxypropan-2-ol	CAS:5131-66-8 EC:225-878-4 Index:603-052- 00-8	Skin Irrit. 2, H315; Eye Irrit. 2, H319	01-2119475527-28
≥1 - ≤2.5 %	2-dimethylaminoethanol	CAS:108-01-0 EC:203-542-8 Index:603-047- 00-0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H331 Acute Tox. 4, H312 Skin Corr. 1B, H314 STOT SE 3, H335	01-2119492298-24
			Specific Concentration Limits: C ≥ 5%: STOT SE 3 H335	
≥1 - ≤2.5 %	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Repr. 2, H361f, M-Acute:1	01-2119491304-40-0000
< 0,1 %	2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195- 00-7	STOT SE 3, H336; Flam. Liq. 3, H226	01-2119475791-29

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist

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immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

Skin Irritation

Ervthema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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

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

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

## 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

#### 7.3. Specific end use(s)

Recommendation(s)

None in particular

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

## 8.1. Control parameters

## **Community Occupational Exposure Limits (OEL)**

	OEL Type	Country	Occupational Exposure Limit
2-dimethylaminoethanol CAS: 108-01-0	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	
2-methoxy-1-methylethyl acetate CAS: 108-65-6	EU		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Behaviour Indicative 2000/39/EC
	EU		Identifies the possibility of significant uptake through the skin
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 274 mg/m3 - 50 ppm; Short Term: 548 mg/m3 - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to

#### Predicted No Effect Concentration (PNEC) values

Reaction mass of Exposure Route: Fresh Water; PNEC Limit: 0,002 mg/l Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate CAS: 1065336-91-5

Exposure Route: Marine water; PNEC Limit: 0 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0,009 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 1,05 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0,11 mg/kg

Exposure Route: Soil; PNEC Limit: 0,21 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l

2-methoxy-1-methylethyl Exposure Route: Fresh Water; PNEC Limit: 0,635 mg/kg

acetate

CAS: 108-65-6

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 6,35 mg/l

Exposure Route: Marine water; PNEC Limit: 0,064 mg/kg

Exposure Route: Freshwater sediments; PNEC Limit: 3,29 mg/kg
Exposure Route: Marine water sediments; PNEC Limit: 0,329 mg/kg

Exposure Route: Soil; PNEC Limit: 0,29 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

## **Derived No Effect Level (DNEL) values**

Reaction mass of Bis(1,2,2,6,6pentamethyl-4-piperidyl) sebacate and Methyl

sebacate and Methyl 1,2,2,6,6-pentamethyl-4piperidyl sebacate CAS: 1065336-91-5 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 1,27 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Industry: 1,8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Consumer: 0,31 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

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Consumer: 0,9 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 0,18 mg/kg

acetate

2-methoxy-1-methylethyl Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)

Consumer: 33 mg/m3

CAS: 108-65-6

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 36 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Consumer: 320 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Consumer: 33 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)

Worker Professional: 550 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 796 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 275 mg/m3

#### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

Thermal Hazards:

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

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

# 9.1. Information on basic physical and chemical properties

Physical State: Liquid Colour: Colourless Odour: N.A. pH: Not Relevant

Kinematic viscosity: > 20,5 mm2/sec (40 °C)

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: > 93°C

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A. Vapour pressure: N.A. Relative density: 1.05 g/cm3 Solubility in water: N.A. Solubility in oil: N.A.

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

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

Flammability: N.A.

Kinematic viscosity m2/s (40°C) > 20,5 mm2/sec (40 °C)

Viscosity: = 25.00 s - Method: ASTM D 1200 82 - Section: 4.00 mm

**Particle characteristics:** 

Particle size: N.A.

## 9.2. Other information

Date 03/04/2025 **Production Name** HYDROFAN HI-TECH CLEARCOAT Page n. 5 of 11 Evaporation rate: N.A. Miscibility: N.A. Conductivity: N.A.

No other relevant information

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

## 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Data not available.

## 10.3. Possibility of hazardous reactions

None.

#### 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

None in particular.

#### 10.6. Hazardous decomposition products

None.

## **SECTION 11: Toxicological information**

b) skin corrosion/irritationc) serious eye damage/irritation

d) respiratory or skin sensitisation

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

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral: 86985.3 mg/kg bw ATEmix - Dermal: 89632.4 mg/kg bw

ATEmix - Inhalation (Vapours): 433.824 mg/l The product is classified: Skin Irrit. 2(H315) The product is classified: Eye Irrit. 2(H319)

The product is classified: Skin Sens. 1A(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

3-butoxypropan-2-ol a) acute toxicity LD50 Oral Rat = 3300, mg/kg bw

2-dimethylaminoethanol a) acute toxicity LD50 Oral Rat = 1183 mg/kg OECD Test Guideline 401

LC50 Inhalation Rat = 5,9 mg/l 4h OECD Test Guideline 403 LD50 Skin Rabbit = 1219 mg/kg OECD Test Guideline 402

Reaction mass of Bis(1,2,2,6,6-

pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4piperidyl sebacate

a) acute toxicity LD50 Oral Rat = 3230 mg/kg

LD50 Skin Rat = 3170, mg/kg

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LD50 Oral Rat > 5000 mg/kg

LC0 Inhalation Rat > 2000 Ppm 3h LD50 Skin Rabbit > 5000 mg/kg

#### 11.2. Information on other hazards

#### **Endocrine disrupting properties:**

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

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

## List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

# List of Eco-Toxicological properties of the components

List of Eco-Toxicological properties of the components			
Component	Ident. Numb.	Ecotox Data	
3-butoxypropan-2-ol	CAS: 5131-66-8 - EINECS: 225- 878-4 - INDEX: 603-052-00-8	a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata > 560 mg/L 96h	
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna > 1000 mg/L 48h	
		a) Aquatic acute toxicity: NOEC Algae Pseudokirchneriella subcapitata = 560 mg/L 96h	
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		e) Plant toxicity : EC50 Algae Desmodesmus subspicatus (green algae) = 1,68 mg/L 72 H	
		a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio (zebrafish) = 0,9 mg/L 96 H	
		a) Aquatic acute toxicity : NOEC Invertebrates Daphnia magna = 1 mg/L 21 Days	
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203-	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss (rainbow trout) 100 mg/L 96 H $$	

603-9 - INDEX: 607-195-00-7

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- - a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) > 500 mg/L 48 H
  - e) Plant toxicity: EC50 Algae Selenastrum capricornutum (green algae) > 1000 mg/L 96 H
  - b) Aquatic chronic toxicity: NOEC Fish Oryzias latipes (Japanese medaka) = 47,5 mg/L 14 D
  - b) Aquatic chronic toxicity: NOEC Invertebrates Daphnia magna (Water flea) >= 100 mg/L 21 D
  - e) Plant toxicity: NOEC Algae Selenastrum capricornutum (green algae) >= 1000 mg/L 96 H

# 12.2. Persistence and degradability

N.A.

# 12.3. Bioaccumulative potential

N.A.

## 12.4. Mobility in soil

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

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## 12.6. Endocrine disrupting properties

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

N.A.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

## **SECTION 14: Transport information**

## 14.1. UN number or ID number

N/A

## 14.2. UN proper shipping name

ADR-Shipping Name: N/A IATA-Shipping Name: N/A IMDG-Shipping Name: N/A

ADR-Class: N/A
IATA-Class: N/A
IMDG-Class: N/A

14.3. Transport hazard class(es)

## 14.4. Packing group

ADR-Packing Group: N/A IATA-Packing group: N/A IMDG-Packing group: N/A

#### 14.5. Environmental hazards

Toxic ingredients quantity: 0.00 Very toxic ingredients quantity: 0.00

Marine pollutant: No Environmental Pollutant: No

IMDG-EMS: N/A

# 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A  $\,$ 

Air (IATA):

IATA-Passenger Aircraft: N/A IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage and handling: N/A

IMDG-Segregation: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisions: N/A

## 14.7. Maritime transport in bulk according to IMO instruments

N.A.

## **SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP)

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Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
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Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2020/878

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 40, 75

#### Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

## German Water Hazard Class.

1: Low hazard to waters

#### **SVHC Substances:**

No data available

## DIRECTIVE 2010/75/EU (VOC directive)

Volatile Organic compounds - VOCs = 6.79 % Volatile Organic compounds - VOCs = 71.30 g/L Estimated Total Content of Water 53.36 %

Estimated Total Solid Content 39.85 %

## Storage Class (TRGS 510)

Storage Class (TRGS 510) Combustible liquids unless LGK 3

## Classification according to VbF

Classification according to VbF A III - Flash Point > 55 °C up to 100 °C, at 15 °C not miscible with water

# Mal-Code (Denmark)

Mal-Code (Denmark)	Mal Factor	Unit of Measure	Revision Status / Number	Regulatory Base
2 - 5	434	m3 air/10 g	1993	Administrative determined MAL-
				Factors

#### **Biocides**

Code

REGULATION (EC) No 528/2012

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## **SECTION 16: Other information**

Description

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H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.

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H412	Harmful to aquatic life with long lasting effects.		
Code	Hazard class and hazard category	Description	
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3	
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3	
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4	
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4	
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B	
3.2/2	Skin Irrit. 2	Skin irritation, Category 2	
3.3/2	Eye Irrit. 2	Eye irritation, Category 2	
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A	
3.7/2	Repr. 2	Reproductive toxicity, Category 2	
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3	
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1	
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1	
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3	

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1A	Calculation method
4.1/C3	Calculation method

May cause drowsiness or dizziness. Suspected of damaging fertility.

Very toxic to aquatic life with long lasting effects.

Very toxic to aquatic life.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

H336

H361f H400

H410

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

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

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging. CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand COV: Volatile Organic Compound CSA: Chemical Safety Assessment

CSR: Chemical Safety Report DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration

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ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

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

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

## Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 5: Firefighting measures
- SECTION 6: Accidental release measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 10: Stability and reactivity
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

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