Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# SAFETY DATA SHEET



# **Balloxy HB Light Comp A**

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

**1.1 Product identifier** 

Product name	: Balloxy HB Light Comp A
Product code	: 385
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.

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

Use in coatings - Industrial use Use in coatings - Professional use

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

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no Jotun Paints (Europe) Ltd. Stather Road Flixborough, Scunthorpe North Lincolnshire DN15 8RR England Tel: +44 17 24 40 00 00

Fax: +44 17 24 40 01 00

## 1.4 Emergency telephone number

National advisory body/Poison CentreTelephone number: Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.Supplier: +47 33 45 70 00 Jotun Norway (head office)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

## Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## 2.2 Label elements

# **SECTION 2: Hazards identification**

H315 - Causes H317 - May ca H318 - Causes H412 - HarmfulPrecautionary statementsGeneral: Not applicable.Prevention: P280 - Wear p P210 - Keep ar sources. No sr P273 - Avoid re P261 - Avoid bResponse: P362 + P364 - P302 + P352 - P333 + P313 - P305 + P351 + minutes. Remo Immediately caStorage: Not applicable.Disposal: P501 - Disposa national and inSupplemental label elements: EUH205 - Con EUH211 - War Do not breatherAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.Special packaging requirements containers to be fitted with child-resistant fastenings Tactile warning of danger : Not applicable.: Not applicable.2.3 Other hazards: Not applicable.	
Hazard statements:H226 - Flamm. H315 - Causes H317 - May ca H318 - Causes H318 - Causes H318 - Causes H412 - HarmfulPrecautionary statementsGeneral:Not applicable.Prevention:P280 - Wear p P210 - Keep ar sources. No sr P273 - Avoid re P261 - Avoid bResponse:P362 + P364 - P302 + P352 - P333 + P313 - P305 + P351 + minutes. Remd Immediately ca Immediately ca storageStorage:Not applicable.Disposal:P501 - Disposa national and inSupplemental label elements:EUH205 - Con EUH211 - War Do not breatherAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:Special packaging requirements Containers to be fitted with child-resistant fastenings Tactile warning of danger:Annex XVII - Restrictiona or the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:Special packaging requirements Containers to be fitted with child-resistant fastenings Tactile warning of danger:2.3 Other hazards Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:	
General: Not applicable.Prevention: P280 - Wear p P210 - Keep a sources. No sr P273 - Avoid re P261 - Avoid bResponse: P362 + P364 - P302 + P352 - P333 + P313 - P305 + P351 + minutes. Remo Immediately caStorage: Not applicable. DisposalSupplemental label elements: EUH205 - Con EUH211 - War Do not breatherAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.Special packaging requirements Containers to be fitted with child-resistant fastenings Tactile warning of danger: Not applicable.2.3 Other hazards Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: This mixture development	able liquid and vapour. s skin irritation. use an allergic skin reaction. s serious eye damage. Il to aquatic life with long lasting effects.
Prevention:P280 - Wear p P210 - Keep ar sources. No sr P273 - Avoid m P261 - Avoid bResponse:P362 + P364 - P302 + P352 - P333 + P313 - P305 + P351 + minutes. Remain mediately can immediately can sources. Not applicable.Storage:Not applicable. Immediately can 	
P210 - Keep a sources. No sr P273 - Avoid re P261 - Avoid bResponse:P362 + P364 - P302 + P352 - P333 + P313 - P305 + P351 + minutes. Remo Immediately caStorage:Not applicable. DisposalDisposal:P501 - Dispose national and inSupplemental label elements:EUH205 - Con EUH211 - War Do not breatherAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:Not applicable.Special packaging requirements:Not applicable.Containers to be fitted with child-resistant fastenings Tactile warning of danger:Not applicable.2.3 Other hazards:Not applicable.Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:This mixture de vPvB.	
P302 + P352 - P333 + P313 - P305 + P351 + minutes. Remo Immediately caStorage:Disposal:Supplemental label:elements:Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articlesSpecial packaging requirementsContainers to be fitted with child-resistant fasteningsContainers to be fitted with child-resistant fasteningsCatile warning of dangerI actile warning of danger:Not applicable.::: </td <td>rotective gloves. Wear eye or face protection. way from heat, hot surfaces, sparks, open flames and other ignition noking. elease to the environment. reathing vapour.</td>	rotective gloves. Wear eye or face protection. way from heat, hot surfaces, sparks, open flames and other ignition noking. elease to the environment. reathing vapour.
Disposal:P501 - Dispose national and inSupplemental label elements:EUH205 - Con EUH211 - War Do not breatherAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:Not applicable.Special packaging requirements Containers to be fitted with child-resistant fastenings 	Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. • P338, P310 - IF IN EYES: Rinse cautiously with water for several ove contact lenses, if present and easy to do. Continue rinsing. all a POISON CENTER or doctor.
Supplemental label elements: EUH205 - Con EUH211 - War Do not breatherAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.Special packaging requirements Containers to be fitted with child-resistant fastenings Tactile warning of danger: Not applicable.2.3 Other hazards Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 	
elementsEUH211 - War Do not breatherAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articlesNot applicable.Special packaging requirements Containers to be fitted with child-resistant fastenings Tactile warning of dangerNot applicable.2.3 Other hazards Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIIIThis mixture de vPvB.	e of contents and container in accordance with all local, regional, ternational regulations.
on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles <u>Special packaging requirements</u> Containers to be fitted with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	tains epoxy constituents. May produce an allergic reaction. ning! Hazardous respirable droplets may be formed when sprayed. e spray or mist.
Containers to be fitted with child-resistant fastenings Tactile warning of danger: Not applicable.2.3 Other hazards Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: Not applicable.	
with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	
2.3 Other hazards Product meets the criteria : This mixture do for PBT or vPvB according vPvB. to Regulation (EC) No. 1907/2006, Annex XIII	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: This mixture do vPvB.	
for PBT or vPvB according vPvB. to Regulation (EC) No. 1907/2006, Annex XIII	
Other hazards which do : None known.	pes not contain any substances that are assessed to be a PBT or a
not result in classification	

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

Product/ingredient name	Identifiers	%	Classification	Туре
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
hydrocarbons, c9-unsatd., polymd.	REACH #: 01-2119555292-40 EC: 701-299-7 CAS: 71302-83-5	≤10	Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≤3	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤3	Carc. 2, H351 (inhalation)	[1] [*]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≤3	Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Chronic 4, H413	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## <u>Туре</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter  $\leq$  10 µm not bound within a matrix. Occupational exposure limits, if available, are listed in Section 8.

# **SECTION 4: First aid measures**

4.1 Description of first aid n	neasures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, hydrocarbons, C9-unsaturated, polymerized. May produce an allergic reaction.

## \_\_\_\_\_

# **SECTION 4: First aid measures**

### **Over-exposure signs/symptoms**

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any im	mediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.
Unsuitable extinguishing media	: Do not use water jet.

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

Hazards from the substance or mixture	:	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	-	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency	: No action shall be taken involving any personal risk or without suitable training.
personnel	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from
	entering. Do not touch or walk through spilt material. Shut off all ignition sources.
	No flares, smoking or flames in hazard area. Do not breathe vapour or mist.
	Provide adequate ventilation. Wear appropriate respirator when ventilation is
	inadequate. Put on appropriate personal protective equipment.

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

For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for c	ontainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds

# **SECTION 7: Handling and storage**

## Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

See Technical Data Sheet / packaging for further information.

## 7.3 Specific end use(s) Recommendations

: Not available.

Industrial sector specific : Not available. solutions

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

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
<b>x</b> ýlene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
2-methylpropan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 231 mg/m <sup>3</sup> 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 154 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-,
	<b>m-, p- or mixed isomers]</b> BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.

**Recommended monitoring** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
epoxy resin (MW ≤ 700)	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>	Workers	Systemic
hydrocarbons, c9-unsatd., polymd.	DNEL	Long term Dermal	3.5 mg/kg bw/day	Workers	Systemic
e of issue/Date of revision : 05.0	04.2024	Date of previous issue	: 21.04.20	023	/ersion : 1.03

# SECTION 8: Exposure controls/personal protection

DNEL		1.41 mg/m <sup>3</sup>	Workers	Systemic
		5 ma/ka	General	Systemic
DINEL	Long term Oral			Systemic
	Long torm			Local
DNEL		05.5 mg/m		LUCAI
		$65.3 \text{ mg/m}^3$		Systemic
DINEL		05.5 mg/m		Systemic
		125 mg/kg		Systemic
DNEL	Long term Derma			Systemic
DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Local
DNFI		221 ma/m <sup>3</sup>	Workers	Systemic
DILLE	0	22 i mg/m	Wontero	Cysternie
DNEL		$260 \text{ mg/m}^3$	General	Local
		200 mg/m		Loodi
DNEI		260 mg/m <sup>3</sup>		Systemic
		200 mg/m		Cyclonno
DNFI		442 ma/m <sup>3</sup>		Local
DITLE		· · _ · · g/ ····	Trontoro	2004
DNFI		442 ma/m <sup>3</sup>	Workers	Systemic
		112 mg/m		Cyclonic
DNFI		55 ma/m <sup>3</sup>	General	Systemic
DITLE		00 mg/m		Cyclonic
DNFI		310 mg/m <sup>3</sup>		Systemic
		010 mg/m	W official	Cyclonic
DNEL		55 ma/m³	General	Local
DITLE		00 mg/m		2004
DNEL		310 ma/m <sup>3</sup>		Local
		j		
DMEL		442 ma/m <sup>3</sup>	Workers	Local
5		· · _ · · g/ ····	Trontoro	2004
DMEL	Short term	884 mg/m³	Workers	Systemic
DNEL		1.6 ma/ka	General	Systemic
	5			,
DNEL	Long term			Systemic
				-,
DNEL		77 ma/m³		Systemic
		5		,
DNEL	Long term Dermal	180 mg/kg bw/dav	Workers	Systemic
DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
	Inhalation			
DNEL	Long term Oral	4 mg/kg	General	Systemic
	-	bw/day	population	-
DNEL	Long term Dermal	4 mg/kg	General	Systemic
		bw/day	population	
DNEL	Long term	5.4 mg/m <sup>3</sup>	General	Systemic
	Inhalation		population	
DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
DNEL	Short term Oral	20 mg/kg	General	Systemic
		bw/day	population	-
DNEL	Short term Dermal	20 mg/kg	General	Systemic
		bw/day	population	-
DNEL	Long term	22 mg/m <sup>3</sup>	Workers	Systemic
	Inhalation	-		-
DNEL	Short term	27 mg/m <sup>3</sup>	General	Systemic
	Inhalation		population	-
DNEL	Short term Dermal	40 mg/kg	Workers	Systemic
	DNEL         DNEL <t< td=""><td>DNEL DNEL DNEL DNELLong term Inhalation Long term DermalDNELLong term DermalDNELLong term DermalDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELCong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term OralDNELLong term OralDNELLong term OralDNELLong term OralDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELLong term OralDNELLong term OralDNELLong term OralDNELLong term DermalDNELLong term DermalDNELLong term OralDNELLong term DermalDNELLong term OralDNELLong term DermalDNELLong term DermalDNELShort term OralDNELShort term OralDNELShort term OralDNELShort term</br></br></td><td>Inhalation5 mg/kg bw/dayDNELLong term Oral5 mg/kg bw/dayDNELLong term65.3 mg/m³InhalationNELLong term Dermal125 mg/kg bw/dayDNELLong term Dermal125 mg/kg bw/dayDNELLong term Dermal121 mg/m³InhalationDNELLong term221 mg/m³DNELLong term260 mg/m³InhalationNELShort term260 mg/m³InhalationNELShort term442 mg/m³InhalationInhalation10 mg/m³DNELShort term442 mg/m³InhalationInhalation55 mg/m³DNELShort term310 mg/m³InhalationInhalation10 mg/m³DNELLong term310 mg/m³InhalationInhalation110 mg/m³DNELLong term310 mg/m³InhalationInhalation110 mg/m³DNELLong term16 mg/kgbw/dayDNELLong termInhalation15 mg/m³DNELLong term16 mg/kgbw/dayDNELLong termDNELLong term180 mg/kgbw/dayDNELLong term OralInhalation180 mg/kgbw/dayDNELLong term DermalInhalation180 mg/kgbw/dayDNELLong term DermalInhalation180 mg/kgbw/dayDNELLong term DermalInhalation180 mg/kgbw/day&lt;</td><td>Inhalation5 mg/kg bw/dayGeneral populationDNELLong term65.3 mg/m³General populationDNELLong term65.3 mg/m³General populationDNELLong term Dermal125 mg/kg bw/dayGeneral populationDNELLong term Dermal125 mg/kg bw/dayGeneral populationDNELLong term Dermal212 mg/kg bw/dayWorkersDNELLong term221 mg/m³WorkersDNELLong term221 mg/m³General populationDNELShort term260 mg/m³General populationDNELShort term260 mg/m³General populationDNELShort term442 mg/m³WorkersInhalation55 mg/m³General populationGeneral populationDNELShort term442 mg/m³WorkersInhalation55 mg/m³General populationGeneral populationDNELLong term55 mg/m³General populationDNELLong term310 mg/m³WorkersInhalationDMELLong term Cral1.6 mg/kg bw/dayGeneral populationDNELLong term Dermal1.6 mg/kg bw/dayGeneral populationDNELLong term Dermal1.6 mg/kg bw/dayGeneral populationDNELLong term Dermal1.6 mg/kg bw/dayGeneral populationDNELLong term Dermal1.6 mg/kg bw/dayGeneral populationDNELLong term Dermal<td< td=""></td<></td></t<>	DNEL DNEL DNEL DNELLong term Inhalation Long term DermalDNELLong term DermalDNELLong term DermalDNELLong term Inhalation 	Inhalation5 mg/kg bw/dayDNELLong term Oral5 mg/kg bw/dayDNELLong term65.3 mg/m³InhalationNELLong term Dermal125 mg/kg bw/dayDNELLong term Dermal125 mg/kg bw/dayDNELLong term Dermal121 mg/m³InhalationDNELLong term221 mg/m³DNELLong term260 mg/m³InhalationNELShort term260 mg/m³InhalationNELShort term442 mg/m³InhalationInhalation10 mg/m³DNELShort term442 mg/m³InhalationInhalation55 mg/m³DNELShort term310 mg/m³InhalationInhalation10 mg/m³DNELLong term310 mg/m³InhalationInhalation110 mg/m³DNELLong term310 mg/m³InhalationInhalation110 mg/m³DNELLong term16 mg/kgbw/dayDNELLong termInhalation15 mg/m³DNELLong term16 mg/kgbw/dayDNELLong termDNELLong term180 mg/kgbw/dayDNELLong term OralInhalation180 mg/kgbw/dayDNELLong term DermalInhalation180 mg/kgbw/dayDNELLong term DermalInhalation180 mg/kgbw/dayDNELLong term DermalInhalation180 mg/kgbw/day<	Inhalation5 mg/kg bw/dayGeneral populationDNELLong term65.3 mg/m³General populationDNELLong term65.3 mg/m³General populationDNELLong term Dermal125 mg/kg bw/dayGeneral populationDNELLong term Dermal125 mg/kg bw/dayGeneral populationDNELLong term Dermal212 mg/kg bw/dayWorkersDNELLong term221 mg/m³WorkersDNELLong term221 mg/m³General populationDNELShort term260 mg/m³General populationDNELShort term260 mg/m³General populationDNELShort term442 mg/m³WorkersInhalation55 mg/m³General populationGeneral populationDNELShort term442 mg/m³WorkersInhalation55 mg/m³General populationGeneral populationDNELLong term55 mg/m³General populationDNELLong term310 mg/m³WorkersInhalationDMELLong term Cral1.6 mg/kg bw/dayGeneral populationDNELLong term Dermal1.6 mg/kg bw/dayGeneral populationDNELLong term Dermal1.6 mg/kg bw/dayGeneral populationDNELLong term Dermal1.6 mg/kg bw/dayGeneral populationDNELLong term Dermal1.6 mg/kg bw/dayGeneral populationDNELLong term Dermal <td< td=""></td<>

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

	P		•		
	DNEL	Short term Inhalation	110 mg/m³	Workers	Systemic
titanium dioxide	DNEL	Long term Inhalation	28 µg/m³	General population	Local
	DNEL	Long term Inhalation	170 µg/m³	Workers	Local
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	DNEL	Long term Inhalation	82.5 µg/m³	General population	Local
	DNEL	Long term Inhalation	332 µg/m³	Workers	Local
	DNEL	Short term Inhalation	25.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	51.3 mg/m <sup>3</sup>	Workers	Local

Product/ingredient name	Compartment Detail	Value	Method Detail
epoxy resin (MW ≤ 700)	Fresh water	0.006 mg/l	-
	Marine	0.0006 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant		
	Fresh water sediment	0.996 mg/l	-
	Marine water sediment	0.0996 mg/l	-
	Soil	0.196 mg/l	-
hydrocarbons, c9-unsatd., polymd.	Fresh water	54 µg/l	-
	Marine	5.4 µg/l	-
	Sewage Treatment	2.2 mg/l	-
	Plant	<b>U</b>	
	Fresh water sediment	1584 mg/kg dwt	-
	Marine water sediment	158 mg/kg dwt	-
	Soil	316.7 mg/kg dwt	-
	Secondary Poisoning	200 mg/kg	-
xylene	Fresh water	0.327 mg/l	-
,	Marine	0.327 mg/l	-
	Sewage Treatment	6.58 mg/l	-
	Plant	Ŭ	
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	-
2-methylpropan-1-ol	Fresh water	0.4 mg/l	-
,	Marine	0.04 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant	- <b>U</b>	
	Fresh water sediment	1.52 mg/kg dwt	-
	Marine water sediment	0.152 mg/kg dwt	-
	Soil	0.0699 mg/kg dwt	-
ethylbenzene	Fresh water	0.1 mg/l	-
,	Marine	0.01 mg/l	-
	Sewage Treatment	9.6 mg/l	-
	Plant	U U	
	Fresh water sediment	13.7 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
	Secondary Poisoning	20 mg/kg	-
benzyl alcohol	Fresh water	1 mg/l	-
,	Marine	0.1 mg/l	-
	Sewage Treatment	39 mg/l	-
	Plant		
	Fresh water sediment	5.27 mg/kg dwt	-
	Marine water sediment	0.527 mg/kg dwt	-
	Soil	0.456 mg/kg dwt	-

**PNECs** 

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

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measur	<u>res</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

#### Gloves

Wear suitable gloves tested to ISO 374-1:2016.

Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm), nitrile rubber (> 0.75 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: polyvinyl alcohol (PVA) (> 0.3 mm), butyl rubber (> 0.4 mm), neoprene (> 0.35 mm), PVC (> 0.5 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physic	I and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Off-white., ,Green.
Odour	: Characteristic.
Odour threshold	: Not applicable.
Melting point/freezing point	: Not applicable.
Initial boiling point and boiling range	: Lowest known value: 108°C (226.4°F) (2-methylpropan-1-ol). Weighted average 239.88°C (463.8°F)
Flammability	: Not applicable.
Upper/lower flammability or explosive limits	: 0.8 - 13%
Flash point	: Closed cup: 35°C (95°F)
Auto-ignition temperature	: Lowest known value: >375°C (>707°F) (hydrocarbons, c9-unsatd., polymd.).
Decomposition temperature	: Not available.
рН	: Not applicable.
Viscosity	: Kinematic (40°C): >20.5 mm²/s
Solubility(ies)	:
Modia	Posult

	Media		Result
	øold water hot water		Not soluble Not soluble
	artition coefficient: n-octanol/ vater	:	Not available.
۷	apour pressure	:	Highest known value: <1.6 kPa (<12 mm Hg) (at 20°C) (2-methylpropan-1-ol). Weighted average: 0.3 kPa (2.25 mm Hg) (at 20°C)
E	vaporation rate	:	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.65compared with butyl acetate
D	ensity	1	1.5 g/cm³
۷	apour density	:	Highest known value: 11.7 (Air = 1) (epoxy resin (MW $\leq$ 700)). Weighted average: 8.29 (Air = 1)
E	xplosive properties	1	Not available.
C	xidising properties	÷	Not available.
P	article characteristics		
ľ	Median particle size	:	Not applicable.

#### 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	No spe	ific	test data related to re	activity available	e for this produ	uct or its	ingredie	nts.			
10.2 Chemical stability	Stable u	inde	er recommended stora	age and handlin	g conditions (s	see Secti	on 7).				
10.3 Possibility of hazardous reactions	Under r	er normal conditions of storage and use, hazardous reactions will not occur.									
10.4 Conditions to avoid	When e	•	osed to high temperate	ures may produ	ce hazardous	decompo	sition				
10.5 Incompatible materials	•		<sup>,</sup> from the following ma gents, strong alkalis, s	•	nt strong exoth	nermic re	actions:				
10.6 Hazardous decomposition products			ition products may inc xide, smoke, oxides of		ng materials: c	arbon mo	onoxide,				
Date of issue/Date of revision	: 05.04.2	024	Date of previous issue	: 21.04.20	23	Version	: 1.03	11/18			

# **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, hydrocarbons, C9-unsaturated, polymerized. May produce an allergic reaction.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	20 g/kg	-
	LD50 Oral	Mouse	15600 mg/kg	-
hydrocarbons,	LD50 Dermal	Rat	2000 mg/kg	-
C9-unsaturated, polymerized				
	LD50 Oral	Rat	2000 mg/kg	-
xylene	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	19200 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	11 mg/l	4 hours
-	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
benzyl alcohol	LD50 Oral	Rat	1230 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Balloxy HB Light Comp A xylene2-methylpropan-1-ol ethylbenzenebenzyl alcohol12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	55909.1	14102.6	N/A	87.3	131.6
	4300	1100	N/A	11	N/A
	2460	3400	N/A	N/A	N/A
	3500	N/A	N/A	11	N/A
	1230	N/A	N/A	11	N/A
	N/A	N/A	N/A	N/A	1.5

Irritation/Corrosion

# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<mark>e</mark> poxy resin (MW ≤ 700)	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
2-methylpropan-1-ol	Eyes - Irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours	-

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
ppoxy resin (MW ≤ 700)	skin	Mammal - species unspecified	Sensitising
hydrocarbons, C9-unsaturated, polymerized	skin	Mouse	Sensitising

#### **Mutagenicity**

No known significant effects or critical hazards.

#### **Carcinogenicity**

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

No known significant effects or critical hazards.

## **Reproductive toxicity**

- **Developmental effects**
- : No known significant effects or critical hazards.
- **Fertility effects** : No known significant effects or critical hazards.

### **Teratogenicity**

No known significant effects or critical hazards.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2 Category 2	-	hearing organs -

#### **Aspiration hazard**

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Date of issue/Date of revision

: 21.04.2023

# **SECTION 11: Toxicological information**

	0
Potential acute health e	effects
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to th	e physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
General	<ul> <li>Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Other information	: None identified.
SECTION 42. Ea	alogical information

# SECTION 12: Ecological information

### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
poxy resin (MW ≤ 700)	Acute EC50 1.4 mg/l	Daphnia	48 hours
	Acute LC50 3.1 mg/l	Fish - pimephales promelas	96 hours
	Chronic NOEC 0.3 mg/l	Fish	21 days
xylene	Acute LC50 8500 μg/l Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
2-methylpropan-1-ol	Chronic NOEC 4000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	21 days
ethylbenzene	Acute EC50 7700 μg/l Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine	Fish - Mummichog - Fundulus	96 hours
	water	heteroclitus	

Conclusion/Summary

: This material is harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary

: Not available.

# **SECTION 12: Ecological information**

CECTION 12. Ecolog			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
poxy resin (MW ≤ 700) xylene	-	-	Not readily Readily
ethylbenzene benzyl alcohol	-	-	Readily Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
epoxy resin (MW ≤ 700)	2.64 to 3.78	31	low
hydrocarbons,	3.627	-	low
C9-unsaturated, polymerized	1		
xylene	3.12	8.1 to 25.9	low
2-methylpropan-1-ol	1	-	low
ethylbenzene	3.6	-	low
benzyl alcohol	0.87	<100	low

12.4 Mobility in soil	
Soil/water partition	

coefficient (Koc)

:	Not available.

## Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.
Waste catalogue	
Waste code	Waste designation
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances
Packaging	1
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste

	packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.			
Type of packaging	Waste catalogue			
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by		

hazardous substances

# **SECTION 13: Disposal considerations**

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	A	DR	/RID	ADN	IMDG	IATA
14.1 UN number	UN1263			UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint			Paint	Paint	Paint
14.3 Transport hazard class(es)	3	•		3	3	3
14.4 Packing group				111	111	III
14.5 Environmental hazards	No.			Yes.	No.	No.
Additional informa ADR/RID	<u>ition</u>	:	Tunnel co	,	- Not goods of class 3, ref	f. 2.2.3.1.5 (only applicable
ADN	<ul> <li>The product is only regulated as an environmentally hazardous substance when transported in tank vessels.</li> </ul>			zardous substance when		
IMDG	<ul> <li>Emergency schedules F-E, <u>S-E</u></li> <li>MDG: Viscous substance. Transport in accordance with 2.3.2.5 of the IMDG Co (only applicable to receptacles &lt; 450 litre capacity).</li> </ul>					
<b>14.6 Special precautions for : Transport within user's premises:</b> always transport in closed containers i upright and secure. Ensure that persons transporting the product know what the event of an accident or spillage.						
<b>14.7 Transport in bulk</b> : Not available.						

according to IMO instruments

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

## Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

## Substances of very high concern

None of the components are listed.

**Ozone depleting substances** 

16/18

# **SECTION 15: Regulatory information**

#### Not listed.

#### **Prior Informed Consent (PIC)**

Not listed.

#### Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances,

# mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

Category			
P5c			
EU regulations			
Industrial emissions (integrated pollution	: Not listed		

# (integrated pollution prevention and control) -

Air		
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed

#### **International regulations**

## Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

## **Montreal Protocol**

Not listed.

## Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other information**

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement
	EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic

Date of issue/Date of revision : 05.04	2024 Date of previous issue :	21.04.2023 Version	: 1.03	17/18
--	-------------------------------	--------------------	--------	-------

Balloxy HB Light Comp A

## **SECTION 16: Other information**

PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

Classification	Justification
Flam. Lig. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H302Harmful if swallowed.H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H332Harmful i nhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H351Suspected of causing cancer.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H413May cause long lasting harmful effects to aquatic life.		
H302Harmful if swallowed.H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H332Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H351Suspected of causing cancer.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H225	Highly flammable liquid and vapour.
H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H322Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H351Suspected of causing cancer.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H226	Flammable liquid and vapour.
H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H322Harmful if inhaled.H335May cause respiratory irritation.H366May cause drowsiness or dizziness.H351Suspected of causing cancer.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H302	Harmful if swallowed.
H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H322Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H351Suspected of causing cancer.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H304	May be fatal if swallowed and enters airways.
<ul> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H351 Suspected of causing cancer.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H312	Harmful in contact with skin.
<ul> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H351 Suspected of causing cancer.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H315	Causes skin irritation.
H319Causes serious eye irritation.H32Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H351Suspected of causing cancer.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H317	May cause an allergic skin reaction.
H332Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H351Suspected of causing cancer.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H318	Causes serious eye damage.
H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H351Suspected of causing cancer.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H319	Causes serious eye irritation.
<ul> <li>H336 May cause drowsiness or dizziness.</li> <li>H351 Suspected of causing cancer.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H332	Harmful if inhaled.
<ul> <li>H351 Suspected of causing cancer.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H335	May cause respiratory irritation.
<ul> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H336	May cause drowsiness or dizziness.
H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H351	Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.	H373	
	H411	
H413 May cause long lasting harmful effects to aquatic life.	H412	
	H413	May cause long lasting harmful effects to aquatic life.

#### Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of printing	: 05.04.2024
Date of issue/ Date of revision	: 05.04.2024

revision	
Date of previous issue	: 21.04.2023
Version	: 1.03
<b>.</b>	

#### Notice to reader

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.