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В

Balloxy HB Light Comp B

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

: Balloxy HB Light Comp
: 386
: Paint.
: Liquid.
: 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

See Annex to the Safety data sheet for additional information in the Exposure Scenario(s).

1.3 Details of the supplier of the safety data sheet

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 SDSJotun@jotun.com

1.4 Emergency telephone number

Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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



SECTION 2: Hazards	IC	ientification
Hazard statements	:	H314 - Causes severe skin burns and eye damage.H317 - May cause an allergic skin reaction.H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
General	1	Not applicable.
Prevention	:	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P273 - Avoid release to the environment.
Response	:	P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or physician. P333 + P313 - If skin irritation or rash occurs: Get medical attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	1	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	3-aminomethyl-3,5,5-trimethylcyclohexylamine 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine hydrocarbons, C9-unsaturated, polymerized
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings		Not applicable.
Tactile warning of danger	:	Not applicable.

2.3 Other hazards

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	Weight %	Regulation (EC) No. 1272/2008 [CLP]	Туре
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
3-aminomethyl-3,5, 5-trimethylcyclohexylamine	REACH #: 01-2119514687-32 EC: 220-666-8 CAS: 2855-13-2 Index: 612-067-00-9	≤14	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	[1]
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Conforms to Regulation (EC) No. 453/2010 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

Balloxy HB Light Comp B					
SECTION 3: Compositio	n/information on	ingredient	s		
2,2,4(or 2,4,4)-trimethylhexane-1, 6-diamine	REACH #: 01-2119560598-25 EC: 247-063-2 CAS: 25513-64-8	≤7.3	Aquatic Chronic 3, H412 Acute Tox. 4, H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]	
hydrocarbons, C9, aromatics, (<0. 1% Benzene)	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≤5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]	
hydrocarbons, C9-unsaturated, polymerized	REACH #: 01-2119555292-40 EC: 615-276-3 CAS: 71302-83-5	≤3	Skin Sens. 1, H317 Aquatic Chronic 3, H412	[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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General	 In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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

SECTION 4: First aid measures

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.

Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine, hydrocarbons, C9-unsaturated, polymerized. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing : Recommended: alcohol-resistant foam, CO₂, powders, water spray. media Unsuitable extinguishing : Do not use water jet. media 5.2 Special hazards arising from the substance or mixture Hazards from the : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. substance or mixture : Decomposition products may include the following materials: carbon monoxide, **Hazardous combustion** products carbon dioxide, smoke, oxides of nitrogen. 5.3 Advice for firefighters Special protective actions : Cool closed containers exposed to fire with water. Do not release runoff from fire to for fire-fighters drains or watercourses. **Special protective** : Appropriate breathing apparatus may be required. equipment for fire-fighters

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
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".

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SECTION 6: Accidental release measures					
6.2 Environmental precautions	: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.				
6.3 Methods and material for containment and cleaning up	: 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). Preferably clean with a detergent. Avoid using solvents.				
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

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

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Recommendations: Not available.Industrial sector specific: Not available.solutions: Not available.

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SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Exposure	Value	Population	Effects
benzyl alcohol	Short term	450 mg/m ³	Workers	Systemic
-	Inhalation	-		
	Long term	90 mg/m³	Workers	Systemic
	Inhalation	-		
	Short term Dermal	47 mg/kg	Workers	Systemic
		bw/day		
	Long term Dermal	9.5 mg/kg	Workers	Systemic
	Ū,	bw/day		-
	Short term Dermal	28.5 mg/	Consumers	Systemic
		kg bw/day		
	Short term Oral	25 mg/kg	Consumers	Systemic
		bw/day		,
	Long term Dermal	5.7 mg/kg	Consumers	Systemic
	Ŭ	bw/day		,
	Long term Oral	5 mg/kg	Consumers	Systemic
		bw/day		- ,
	Long term	8.11 mg/m ³	Consumers	Systemic
	Inhalation	- 0	-	5
	Short term	40.55 mg/	Consumers	Systemic
	Inhalation	m ³		-)
3-aminomethyl-3,5,	Long term Oral	0.526 mg/	Consumers	Systemic
5-trimethylcyclohexylamine	5	kg bw/day	-	5
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	Long term Oral	0.05 mg/	Consumers	Systemic
	Ŭ	kg bw/day		,
hydrocarbons, C9, aromatics, (<0.1%	Long term Dermal	25 mg/kg	Workers	Systemic
Benzene)	5	bw/day		5
,	Long term	150 mg/m ³	Workers	Systemic
	Inhalation	0		,
	Long term Dermal	11 mg/kg	Consumers	Systemic
	5	bw/day	-	5
	Long term	32 mg/m ³	Consumers	Systemic
	Inhalation	<u> </u>		-)
	Long term Oral	11 mg/kg	Consumers	Systemic
		bw/day	••••••	-) - ! - ! - ! - ! - ! - ! - ! - ! - !
hydrocarbons, C9-unsaturated, polymerized	Long term Dermal	16.4 mg/	Workers	Systemic
		kg bw/day		
	Long term	57 mg/m ³	Workers	Systemic
	Inhalation	5. mg/m		5,0001110
	Long term Dermal	8 mg/kg	Consumers	Systemic
		S mg/ng	Concernors	
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SECTION 8: Exposure controls/personal protection

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PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
benzyl alcohol	Fresh water	1 mg/l	-
	Marine	0.1 mg/l	-
	Sewage Treatment Plant	39 mg/l	-
	Fresh water sediment	5.27 mg/kg dwt	-
	Marine water sediment	0.527 mg/kg dwt	-
	Soil	0.456 mg/kg dwt	-
3-aminomethyl-3,5, 5-trimethylcyclohexylamine	Fresh water	0.06 mg/l	-
	Marine	0.006 mg/l	-
	Sewage Treatment Plant	3.18 mg/l	-
	Fresh water sediment	5.784 mg/kg dwt	-
	Marine water sediment	0.578 mg/kg dwt	-
	Soil	1.121 mg/kg dwt	-
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	Fresh water	0.0295 mg/l	-
	Marine	0.00295 mg/l	-
	Sewage Treatment Plant	72 mg/l	-
	Fresh water sediment	0.18 mg/kg dwt	-
	Marine water sediment	0.018 mg/kg dwt	-
	Soil	0.019 mg/kg dwt	-
hydrocarbons, C9-unsaturated, polymerized	Fresh water	54 µg/l	-
	Marine	5.4 µg/l	-
	Sewage Treatment Plant	2.2 mg/l	-
	Fresh water sediment	1584 mg/kg dwt	-
	Marine water sediment	158 mg/kg dwt	-
	Marine water sediment	158 mg/kg dwt	-
	Soil	316.7 mg/kg dwt	-
	Secondary Poisoning	200 mg/kg	-

8.2 Exposure controls

Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.
Individual protection meas	ires
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	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	

•	re controls/personal protection
Gloves	: 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/chemica 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.
	Wear suitable gloves tested to EN374. May be used, gloves(breakthrough time) 4 - 8 hours: PVC Recommended, gloves(breakthrough time) > 8 hours: fluor rubber, Viton®, 4H, buty rubber, neoprene, nitrile rubber
	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	 Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.
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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various colours.
Odour	: Characteristic.
Odour threshold	: Not applicable.
рН	: Not applicable.
Melting point/freezing point	: Not applicable.
Initial boiling point and boiling range	 Lowest known value: 135 to 210°C (275 to 410°F)(Solvent naphtha (petroleum), light arom.). Weighted average: 223.19°C (433.7°F)
Flash point	: Not available.
Evaporation rate	: 0.007 (benzyl alcohol) compared with butyl acetate
Flammability (solid, gas)	: Not applicable.
Upper/lower flammability or explosive limits	: 1.2 - 13%
Vapour pressure	 Highest known value: 0.007 kPa (0.05 mm Hg) (at 20°C) (benzyl alcohol). Weighted average: 0.004 kPa (0.03 mm Hg) (at 20°C)
Vapour density	: Highest known value: 3.7 (Air = 1) (benzyl alcohol).
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SECTION 9: Physical and chemical properties

Density	: 1.025 to 1.14 g/cm ³
Solubility(ies)	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Lowest known value: 280 to 470°C (536 to 878°F) (Solvent naphtha (petroleum), light arom.).
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)
Explosive properties	: Not available.
Oxidising properties	: Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	1	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	1	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	1	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

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.

Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine, hydrocarbons, C9-unsaturated, polymerized. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
benzyl alcohol 3-aminomethyl-3,5, 5-trimethylcyclohexylamine	LD50 Oral LD50 Oral	Rat Rat	1230 mg/kg 1030 mg/kg	-
Conclusion/Summary	: Not available.			

Acute toxicity estimates

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SECTION 11: Toxicological information

	Route	ATE value
Oral Dermal Inhalation (vapours)		2819.8 mg/kg 10490.2 mg/kg 60.44 mg/l
Irritation/Corrosion		
Conclusion/Summary	: Not available.	
Sensitisation		
Conclusion/Summary	: Not available.	
Mutagenicity		
Conclusion/Summary	: Not available.	
Carcinogenicity		
Conclusion/Summary	: Not available.	
Reproductive toxicity		
Conclusion/Summary	: Not available.	
Teratogenicity		
Conclusion/Summary	: Not available.	
Specific target organ tox	icity (single exposure)	

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, C9, aromatics, (<0.1% Benzene)	Category 3		Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result	
hydrocarbons, C9, aromatics, (<0.1% Benzene)	ASPIRATION HAZARD - Category 1	

Other information

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: Not available.

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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
3-aminomethyl-3,5,	Acute EC50 17.4 to 21.5 mg/l Fresh	Daphnia - Daphnia magna	48 hours
5-trimethylcyclohexylamine	water		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Acute IC50 37 mg/l	Algae	72 hours
2,2,4(or 2,4,4)-	Acute EC50 29.5 mg/l	Algae - Scenedesmus	72 hours
trimethylhexane-1,6-diamine		subspicatus	
•	Acute EC50 31.5 mg/l	Daphnia - Daphnia magna	24 hours
	Acute LC50 150 mg/l	Fish - Leuciscus idus melanotus	48 hours
hydrocarbons, C9,	Acute EC50 <10 mg/l	Daphnia	48 hours
aromatics, (<0.1% Benzene)	5	•	
	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
Conclusion/Summary	: This material is harmful to aquatic lif	e with long lasting effects.	•

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SECTION 12: Ecological information

12.2 Persistence and degradability

Conclusion/Summary	: Not available.
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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol 3-aminomethyl-3,5, 5-trimethylcyclohexylamine	-	-	Readily Not readily
2,2,4(or 2,4,4)- trimethylhexane-1,6-diamine	-	-	Not readily
hydrocarbons, C9, aromatics, (<0.1% Benzene)	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
benzyl alcohol	0.87	<100	low
3-aminomethyl-3,5,	0.99	-	low
5-trimethylcyclohexylamine			
2,2,4(or 2,4,4)-	-0.3	-	low
trimethylhexane-1,6-diamine			
hydrocarbons, C9,	-	10 to 2500	high
aromatics, (<0.1% Benzene)			-
hydrocarbons,	3.627	-	low
C9-unsaturated, polymerized			

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

PBT	: Not applicable.
vPvB	: Not applicable.

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.
Disposal considerations	 Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
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SECTION 13: Disposal considerations			
European waste catalogue (EWC)	: 08 01 11* W substances	08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances	
Packaging			
Methods of disposal	packaging s	: 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.	
Disposal considerations	the relevant Empty conta Dispose of o	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions. 	
Type of packaging		European waste catalogue (EWC)	
CEPE Paint Guidelines	15 01 10*	packaging containing residues of or contaminated by	

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hazardous substances
 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN2735	UN2735	UN2735	UN2735
14.2 UN proper shipping name	Polyamines, liquid, corrosive, n.o.s. (2,2,4 (or 2,4,4)- trimethylhexane-1, 6-diamine)			
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional informa	tion			•
ADR/RID		triction code: (E) ntification number: 80		
ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.			ous substance when	
IMDG : <u>Emergency schedules</u> F-A, S-B 18 - Alkalis				
14.6 Special precautions for : Transport within user's premises: always transport in closed containers that ar upright and secure. Ensure that persons transporting the product know what to do the event of an accident or spillage.				
4.7 Transport in bulk : Not applicable. ccording to Annex II of larpol and the IBC Code				

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SECTION 15: Regulatory information

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	onmental regulations/legislation specific for the substance or mixture			
EU Regulation (EC) No. 1907/2006 (REACH)				
	ices subject to authorisation			
Annex XIV				
None of the components ar				
Substances of very high o				
None of the components an				
Annex XVII - Restrictions on the manufacture,	: Not applicable.			
placing on the market				
and use of certain				
dangerous substances, mixtures and articles				
Other EU regulations				
VOC	: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.			
VOC for Ready-for-Use Mixture	: Not applicable.			
Europe inventory	: At least one component is not listed.			
Ozone depleting substance	es (1005/2009/EU)			
Not listed.				
Prior Informed Consent (PI	<u>C) (649/2012/EU)</u>			
Not listed.				
Seveso Directive				
This product is not controlled	under the Seveso Directive.			
National regulations				
Industrial use	: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.			
International regulations				
Chemical Weapon Convention	on List Schedules I, II & III Chemicals			
Not listed.				
<u>Montreal Protocol (Annexes</u>	<u>A, B, C, E)</u>			
Not listed.				
Stockholm Convention on P	ersistent Organic Pollutants			
Not listed.				
Rotterdam Convention on P	rior Informed Consent (PIC)			
Not listed.				
UNECE Aarhus Protocol on Not listed.	POPs and Heavy Metals			
15.2 Chemical safety assessment	: Not applicable.			

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SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Corr. 1A, H314	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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 2, H411 Aquatic Chronic 3, H412 Asp. Tox. 1, H304 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Skin Corr. 1A, H314 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336	ACU ACU LONG ASPI SERI SERI SERI SERI SKIN SKIN SKIN SKIN SPEG (Res	TE TOXICITY (oral) - Category 4 TE TOXICITY (dermal) - Category 4 TE TOXICITY (inhalation) - Category 4 G-TERM (CHRONIC) AQUATIC HAZARD - Category 2 G-TERM (CHRONIC) AQUATIC HAZARD - Category 3 RATION HAZARD - Category 1 OUS EYE DAMAGE/EYE IRRITATION - Category 1 OUS EYE DAMAGE/EYE IRRITATION - Category 2 IMABLE LIQUIDS - Category 3 CORROSION/IRRITATION - Category 1A CORROSION/IRRITATION - Category 1B SENSITISATION - Category 1 CIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE Diratory tract irritation) - Category 3 CIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE otic effects) - Category 3
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SECTION 16: Other information

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.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

:03.05.2019

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Industrial use

Balloxy HB Light Comp B

Exposure Scenario: Use in coatings -

Sector of Use	: Industrial use
Process Category	: PROC05 PROC07 PROC08a PROC10
Environmental release category(ies)	: ERC4

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

Operational conditions and risk management measures

Control of worker exposure

Frequency and duration of use	: Covers daily exposures up to 8 hours
General - Operational conditions	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
General - Risk management measures	: Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training. Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8 for information on appropriate personal protective equipment.
Type of activity or process	Risk management measures
Preparation of material for application	: Provide extract ventilation to points where emissions occur. Wear a respirator conforming to EN140 with type A/P2 filter or better.
Roller, spreader, flow application	: Provide extract ventilation to points where emissions occur. Wear a respirator conforming to EN140 with type A/P2 filter or better.
Spraying - Manual	: Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Wear a respirator conforming to EN140 with type A/P2 filter or better.

Control of environmental exposure

Additional information	
Conditions and measures related to external recovery of waste	 External recovery and recycling of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external treatment of waste for disposal	 External treatment and disposal of waste should comply with applicable local and/or national regulations. See Section 13 for additional waste treatment information.
Organisational measures to prevent/limit release from site	: Prevent environmental discharge consistent with regulatory requirements.

Additional information

The exposure scenario for the mixture is based on the following substances:

REACH #: 01-2119514687-32 REACH #: 01-2119456619-26 (from Comp A) SUPPLIED BY SML PROTECTIVE COATINGS - TEL: 01285 862 132 - WEB: WWW.SMLPROTECTIVECOATINGS.CO.UK



Balloxy HB Light Comp B

Exposure Scenario: Use in coatings -

Professional use

Sector of Use	: Professional use
Process Category	: PROC05 PROC08a PROC10 PROC11
Environmental release category(ies)	: ERC8a ERC8d

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

Operational conditions and risk management measures

Control of worker exposure

Frequency and duration of use	: Covers daily exposures up to 8 hours
General - Operational conditions	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
General - Risk management measures	: Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training. Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8 for information on appropriate personal protective equipment.
Type of activity or process	Risk management measures
Preparation of material for application - Indoor	Provide extract ventilation to points where emissions occur. Avoid carrying out activities involving exposure for more than 1 hour and Wear a respirator conforming to EN140 with type A/P2 filter or better. or
	Provide extract ventilation to points where emissions occur. Avoid carrying out activities involving exposure for more than 4 hours and Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.
Preparation of material for application - Outdoor	: Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 1 hour and Wear a respirator conforming to EN140 with type A/P2 filter or better. or
	Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 4 hours and Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.
Equipment cleaning and maintenance	: Drain down system prior to equipment break-in or maintenance. Avoid carrying out activities involving exposure for more than 4 hours.
Roller, spreader, flow application - Indoor	: Provide extract ventilation to points where emissions occur. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.
Roller, spreader, flow application - Outdoor	: Ensure operation is undertaken outdoors. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.
Spraying - Manual - Indoor	: Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.
Spraying - Manual - Outdoor	: Ensure operation is undertaken outdoors. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.

Control of environmental exposure

Organisational measures to prevent/limit release from site	: Prevent environmental discharge consistent with regulatory requirements.
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations. See Section 13 for additional waste treatment information.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
Additional information	

The exposure scenario for the mixture is based on the following substances:

REACH #: 01-2119514687-32 REACH #: 01-2119456619-26 (from Comp A)