

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

1.1 Product identifier	
Product name	: Penguard Special B10 Comp B
Product code	: 20685
Product description	: Hardener.
Product type	: Liquid.
Other means of identification	: Not available.
UFI	: 3W8U-Q1VF-H00R-Q7V1
1.2 Relevant identified us	es of the substance or mixture and uses advised against
Use in coatings - Industria	al 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 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

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#### 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]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411

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

Hazard pictograms	:	
Signal word	:	Danger.
Hazard statements	:	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H318 - Causes serious eye damage.</li> <li>H335 - May cause respiratory irritation.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		
General	:	Not applicable.
Prevention	:	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapour.</li> </ul>
Response	:	<ul> <li>P391 - Collect spillage.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>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.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul>
Storage	1	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine xylene 2,4,6-tris(dimethylaminomethyl)phenol amines, polyethylenepoly-, triethylenetetramine fraction
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 requiren	nen	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
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 does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.
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### **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture						
Product/ingredient name	Identifiers	Weight %	Regulation (EC) No. 1272/2008 [CLP]	Туре		
fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	CAS: 68082-29-1	≥50 - ≤75	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	[1]		
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥25 - ≤50	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]		
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	<10	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]		
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	<5	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318	[1]		
amines, polyethylenepoly-, triethylenetetramine fraction	REACH #: 01-2119487919-13 EC: 292-588-2 CAS: 90640-67-8	<1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	[1]		

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	anything by m	: 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		l remove any contact le ast 15 minutes, keepin							
Inhalation		esh air. Keep person wa respiratory arrest occur nnel.							
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### SECTION 4: First aid measures

Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
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

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. 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. Ingestion may cause nausea, diarrhea and vomiting.

#### Over-exposure signs/symptoms

Eye contact		Adverse symptoms may include the following: pain watering redness
Inhalation		Adverse symptoms may include the following: respiratory tract irritation coughing
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 immedia	te n	nedical attention and special treatment needed
Notes to physician		n 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	: 1	No specific treatment.

See toxicological information (Section 11)

#### **SECTION 5: Firefighting measures** 5.1 Extinguishing media Suitable extinguishing : Recommended: alcohol-resistant foam, CO<sub>2</sub>, 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 **Hazardous combustion** Decomposition products may include the following materials: carbon monoxide, з. carbon dioxide, smoke, oxides of nitrogen. products

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### SECTION 5: Firefighting measures

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	: Appropriate breathing apparatus may be required.

### SECTION 6: Accidental release measures

6.1 Personal precautions, pr	ective equipment and emergency procedures	
For non-emergency personnel	Exclude sources of ignition and ventilate the area. Avoid breathing vapour Refer to protective measures listed in sections 7 and 8.	or mist.
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	Do not allow to enter drains or watercourses. If the product contaminates I rivers, or sewers, inform the appropriate authorities in accordance with loc regulations.	
6.3 Methods and material for containment and cleaning up	Contain and collect spillage with non-combustible, absorbent material e.g. earth, vermiculite or diatomaceous earth and place in container for dispose according to local regulations (see Section 13). Preferably clean with a def Avoid using solvents.	al
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipmer See Section 13 for additional waste treatment information.	nt.

### **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

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

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. : Not available.

Industrial sector specific solutions

### **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**

Product/ingredient name	Exposure limit values		
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). 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.		
ethylbenzene	TWA: 50 ppm 8 hours. <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed</b> <b>through skin.</b> 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.		
procedures atmosphere	luct contains ingredients with exposure limits, personal, workplace re or biological monitoring may be required to determine the effectiveness tilation or other control measures and/or the necessity to use respiratory		

cedures 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
fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	Long term Oral	0.56 mg/ kg bw/day	General population	Systemic
	Long term Dermal	0.56 mg/ kg bw/day	General population	Systemic
	Long term Inhalation	0.97 mg/m <sup>3</sup>	General population	Systemic
	Long term Dermal	1.1 mg/kg bw/day	Workers	Systemic
	Long term	3.9 mg/m <sup>3</sup>	Workers	Systemic
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	Inhalation			
xylene	Long term Oral	1.6 mg/kg	General	Systemic
	1	bw/day	population	Questa encia
	Long term Inhalation	14.8 mg/m <sup>3</sup>	General population	Systemic
	Long term	77 mg/m³	Workers	Systemic
	Inhalation	// ilig/ili	Workere	Cyclonno
	Long term Dermal	108 mg/kg	General	Systemic
		bw/day	population	
	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	Short term	289 mg/m <sup>3</sup>	Workers	Local
	Inhalation	200 m m/m 3	\\/orl/org	Quetaraia
	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Systemic
	Long term	65.3 mg/m <sup>3</sup>	General	Local
	Inhalation	00.0 mg/m	population	Loodi
	Short term	260 mg/m <sup>3</sup>	General	Local
	Inhalation	Ū	population	
	Short term	260 mg/m <sup>3</sup>	General	Systemic
	Inhalation		population	
	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
ethylbenzene	Long term Oral	1.6 mg/kg	General	Systemic
		bw/day	population	-,
	Long term	15 mg/m <sup>3</sup>	General	Systemic
	Inhalation	_	population	
	Long term Inhalation	77 mg/m³	Workers	Systemic
	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	Short term	293 mg/m <sup>3</sup>	Workers	Local
	Inhalation Long term	442 mg/m <sup>3</sup>	Workers	Local
	Inhalation	442 mg/m	WUIKEIS	LUCAI
	Short term	884 mg/m <sup>3</sup>	Workers	Systemic
	Inhalation	Ū		,
2,4,6-tris(dimethylaminomethyl)phenol	Long term Dermal	0.2 mg/kg bw/day	Workers	Systemic
	Long term Inhalation	0.31 mg/m <sup>3</sup>	Workers	Systemic
	Long term Oral	0.075 mg/	General	Systemic
		kg bw/day	population	
	Short term Dermal	0.075 mg/	General	Systemic
		kg bw/day	population	
	Long term Dermal	0.075 mg/	General	Systemic
	Short term	kg bw/day 0.13 mg/m³	population General	Systemic
	Inhalation	0.15 mg/m	population	Oysternic
	Long term	0.13 mg/m <sup>3</sup>		Systemic
	Inhalation	_	population	
	Long term Dermal	0.15 mg/ kg bw/day	Workers	Systemic
	Long term Inhalation	0.53 mg/m <sup>3</sup>	Workers	Systemic
	Short term Dermal	0.6 mg/kg bw/day	Workers	Systemic
	Short term Inhalation	2.1 mg/m <sup>3</sup>	Workers	Systemic
amines, polyethylenepoly-, triethylenetetramine fraction	Long term Dermal	0.028 mg/ cm²	Workers	Local
2	Long term	0.096 mg/	General	Systemic

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

Inhalation	m³	population	
Long term Oral	0.14 mg/	General	Systemic
	kg bw/day	population	
Long term Dermal	0.25 mg/	General	Systemic
	kg bw/day	population	
Long term Dermal	0.43 mg/	General	Local
	cm²	population	
Long term	0.54 mg/m³	Workers	Systemic
Inhalation			
Long term Dermal	0.57 mg/	Workers	Systemic
	kg bw/day	- ·	
Short term Dermal	1 mg/cm <sup>2</sup>	General	Local
<b>.</b>	- <i>"</i>	population	
Short term Dermal	8 mg/kg	General	Systemic
	bw/day	population	
Short term Oral	20 mg/kg	General	Systemic
<b>a</b>	bw/day	population	
Short term	1600 mg/	General	Systemic
Inhalation	m³	population	
Short term	5380 mg/	Workers	Systemic
Inhalation	m³		

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
xylene	Fresh water	0.327 mg/l	-
	Marine	0.327 mg/l	-
	Sewage Treatment	6.58 mg/l	-
	Plant		
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	-
ethylbenzene	Fresh water	0.1 mg/l	-
	Marine	0.01 mg/l	-
	Sewage Treatment	9.6 mg/l	-
	Plant		
	Fresh water sediment	13.7 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
	Secondary Poisoning	20 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	Fresh water	0.084 mg/l	-
	Marine	0.0084 mg/l	-
	Sewage Treatment Plant	0.2 mg/l	-
amines, polyethylenepoly-, triethylenetetramine fraction	Fresh water	190 µg/l	Assessment Factors
	Fresh water sediment	95.9 mg/kg	Equilibrium Partitioning
	Marine water	38 µg/l	Assessment Factors
	Marine water sediment	19.2 mg/kg	Equilibrium Partitioning
	Soil	19.1 mg/kg	Equilibrium Partitioning
	Sewage Treatment Plant	4.25 mg/l	Assessment Factors
	Secondary Poisoning	0.18 mg/kg	Assessment Factors

#### 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 measures

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

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 EN 166 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	
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/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. Wear suitable gloves tested to EN374. Not recommended, gloves(breakthrough time) < 1 hour: PVC May be used, gloves(breakthrough time) > 8 hours: neoprene, butyl rubber Recommended, gloves(breakthrough time) > 8 hours: 4H, Teflon, nitrile rubber, polyvinyl alcohol (PVA)
	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**

	physical and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Colourless.
Odour	: Characteristic.
Odour threshold	: Not applicable.

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

<b>J</b> = = = =	• •	
рН	Not applicable.	
Melting point/freezing point	Not applicable.	
Initial boiling point and boiling range	Lowest known value: 136.1°C (277°F) (ethylbenzene). Weighted average: 136.14°C (277.1°F)	
Flash point	Closed cup: 25°C	
Evaporation rate	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79compared with butyl acetate	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or explosive limits	0.8 - 6.7%	
Vapour pressure	Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.33 kPa (2.48 mm Hg) (at 20°C)	
Vapour density	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.7 (Air = 1)	
Density	0.936 g/cm³	
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: 382°C (719.6°F) (2,4,6-tris(dimethylaminomethyl)phenol).	
Decomposition temperature	Not available.	
Viscosity	Kinematic (40°C): >20.5 mm²/s (>20.5 cSt)	
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	1	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	:	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. 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. Ingestion may cause nausea, diarrhea and vomiting.

#### Acute toxicity

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

		-		-
Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2,4,6-tris	LD50 Oral	Rat	1673 mg/kg	-
(dimethylaminomethyl)				
phenol				
amines, polyethylenepoly-,	LD50 Dermal	Rabbit - Male,	1465.4 mg/kg	-
triethylenetetramine fraction		Female		
-	LD50 Oral	Rat - Male,	1716.2 mg/kg	-
		Female		

#### Acute toxicity estimates

Route	ATE value
Oral	36251.35 mg/kg
Dermal	4313.92 mg/kg
Inhalation (vapours)	57.06 mg/l

#### Irritation/Corrosion

Product/ingredient name	Exposure	Species	Score	Exposure	Observation
fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	Eyes - Irritant	Mammal - species unspecified	-	-	-
,	Skin - Mild irritant	Mammal - species unspecified	-	-	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
2,4,6-tris (dimethylaminomethyl) phenol	Eyes - Severe irritant	Rabbit	-	24 hours 50 µg	-
F	Skin - Severe irritant	Rat	-	0.25 ml	-

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	skin	Mammal - species unspecified	Sensitising
amines, polyethylenepoly-, triethylenetetramine fraction	skin	Mammal - species unspecified	Sensitising

#### **Mutagenicity**

No known significant effects or critical hazards.

#### **Carcinogenicity**

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.

Specific target organ toxicity (single exposure)

## **SECTION 11: Toxicological information**

C			
Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
Specific target organ toxicity (repeated exposure)		·	·
Product/ingredient name	Category	Route of	Target organs

exposure

hearing organs

# ethylbenzene Aspiration hazard

Product/ingredient na	ame Result
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Other information : None ide	ntified.

Category 2

### **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
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
amines, polyethylenepoly-, triethylenetetramine fraction	Acute EC50 20 mg/l	Algae	72 hours
	Acute EC50 31.1 mg/l Acute LC50 330 mg/l	Daphnia Fish	48 hours 96 hours

This material is toxic to aquatic life with long lasting effects.

#### **12.2 Persistence and degradability**

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene amines, polyethylenepoly-, triethylenetetramine fraction		-	Readily Readily Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	8.1 to 25.9	low
ethylbenzene	3.6	-	low
2,4,6-tris	0.219	-	low
(dimethylaminomethyl)			
phenol			
amines, polyethylenepoly-,	-2.65	-	low
triethylenetetramine fraction			

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

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.
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.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances
Packaging	
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.
Disposal considerations	<ul> <li>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.</li> </ul>

Result		European waste catalogue (EWC)
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special precautions	<ul> <li>This material and its container must be disposed of in a safe way. Care sl taken when handling emptied containers that have not been cleaned or rin Empty containers or liners may retain some product residues. Vapour fror residues may create a highly flammable or explosive atmosphere inside th container. Do not cut, weld or grind used containers unless they have been thoroughly internally. Avoid dispersal of spilt material and runoff and containers soil, waterways, drains and sewers.</li> </ul>	

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint. Marine pollutant (fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine)	Paint
14.3 Transport hazard class(es)	3			3
14.4 Packing group				111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional informa ADR/RID ADN	: The envisizes of <u>Hazard</u> <u>Tunnel</u>	≤5 L or ≤5 kg. <u>identification number</u> <u>code</u> (D/E)	s substance mark is not requi 1 30 s substance mark is not requi	
	sizes of	≦5 L or ≤5 kg.		
IMDG		rine pollutant mark is ne ency schedules F-E, <u>S</u>	ot required when transported <u>-E</u>	in sizes of ≤5 L or ≤5 k
ΙΑΤΑ		vironmentally hazardous rtation regulations.	s substance mark may appea	ar if required by other
14.6 Special precau user	<b>cautions for</b> : <b>Transport within user's premises:</b> always transport in closed containers that upright and secure. Ensure that persons transporting the product know what to the event of an accident or spillage.			
14.7 Transport in b according to IMO instruments	ulk : Not app	licable.		

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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.

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

SECTION 15: Regula	ry information
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
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	Not determined.
Ozone depleting substance	<u>(1005/2009/EU)</u>
Not listed.	
Prior Informed Consent (P	<u>(649/2012/EU)</u>
Not listed.	<del>_</del>
Seveso Directive	
	lculation for determining whether a site is within the scope of the Seveso Directive on
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 Convent	List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention on I	sistent Organic Pollutants
Not listed.	
Rotterdam Convention on F Not listed.	or Informed Consent (PIC)
UNECE Aarhus Protocol on Not listed.	<u>DPs and Heavy Metals</u>
15.2 Chemical safety assessment	Not applicable.

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

Date of issue/Date of revision

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate 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

:18.02.2020

Version : 3

15/19

: 18.07.2022 Date of previous issue

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

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Flam. Liq. 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
STOT SE 3, H335	Calculation method
Aquatic Chronic 2, H411	Calculation method

#### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
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.
H315	Causes skin irritation.
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.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Full text of classifications [CLP/GHS]

Date of issue/ Date of revision: 18.07.2022Date of previous issue: 18.02.2020			
Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3Asp. Tox. 1ASPIRATION HAZARD - Category 1Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Skin Corr. 1BSKIN CORROSION/IRRITATION - Category 1BSkin Corr. 1CSKIN CORROSION/IRRITATION - Category 1CSkin Sens. 1SKIN SENSITISATION - Category 1Stor RE 2SKIN SENSITISATION - Category 1ASTOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 3SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3Date of printing: 18.07.2022Date of previous issue: 18.02.2020			
Asp. Tox. 1ASPIRATION HAZARD - Category 1Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 2FLAMMABLE LIQUIDS - Category 3Skin Corr. 1BSKIN CORROSION/IRRITATION - Category 1BSkin Corr. 1CSKIN CORROSION/IRRITATION - Category 1CSkin Sens. 1SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1Stor RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 3SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3Date of printing: 18.07.2022Pate of previous issue: 18.02.2020			
Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 2FLAMMABLE LIQUIDS - Category 2Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Skin Corr. 1BSKIN CORROSION/IRRITATION - Category 1BSkin Corr. 1CSKIN CORROSION/IRRITATION - Category 1CSkin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1Skin Sens. 1ASKIN SENSITISATION - Category 1ASTOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 3SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3Date of printing: 18.07.2022Pate of previous issue: 18.02.2020			
Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 2FLAMMABLE LIQUIDS - Category 2Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Skin Corr. 1BSKIN CORROSION/IRRITATION - Category 1BSkin Corr. 1CSKIN CORROSION/IRRITATION - Category 1CSkin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1ASTOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 3SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3Date of printing: 18.07.2022Date of previous issue: 18.02.2020	Asp. Tox. 1		ASPIRATION HAZARD - Category 1
Flam. Liq. 2FLAMMABLE LIQUIDS - Category 2Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Skin Corr. 1BSKIN CORROSION/IRRITATION - Category 1BSkin Corr. 1CSKIN CORROSION/IRRITATION - Category 1CSkin Sens. 1SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1ASTOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 2SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3Date of printing: 18.07.2022Date of previous issue: 18.02.2020	Eye Dam. 1		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
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Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Skin Corr. 1BSKIN CORROSION/IRRITATION - Category 1BSkin Corr. 1CSKIN CORROSION/IRRITATION - Category 1CSkin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1Skin Sens. 1ASKIN SENSITISATION - Category 1ASTOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 2SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3Date of printing: 18.07.2022Pate of issue/ Date of: 18.07.2022revision: 18.02.2020			
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Skin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1Skin Sens. 1ASKIN SENSITISATION - Category 1ASTOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 2SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -Category 3Category 3Date of printing: 18.07.2022Pate of issue/ Date of: 18.07.2022Pate of previous issue: 18.02.2020			
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Skin Sens. 1A       SKIN SENSITISATION - Category 1A         STOT RE 2       SPECIFIC TARGET ORGAN TOXICITY - REPEATED         EXPOSURE - Category 2       SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3         Date of printing       : 18.07.2022         Date of issue/ Date of       : 18.07.2022         Date of previous issue       : 18.02.2020			
STOT RE 2       SPECIFIC TARGET ORGAN TOXICITY - REPEATED         STOT SE 3       SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2         Date of printing       : 18.07.2022         Date of issue/ Date of       : 18.07.2022         Date of previous issue       : 18.02.2020			
STOT SE 3       EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3         Date of printing       : 18.07.2022         Date of issue/ Date of revision       : 18.07.2022         Date of previous issue       : 18.02.2020			
STOT SE 3       SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3         Date of printing       : 18.07.2022         Date of issue/ Date of       : 18.07.2022         revision       : 18.02.2020	STOT RE 2		
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Date of issue/ Date of revision: 18.07.2022Date of previous issue: 18.02.2020			Category 3
revision Date of previous issue : 18.02.2020	Date of printing	: 18.07.2022	
revision Date of previous issue : 18.02.2020	Date of issue/ Date of	: 18.07.2022	
•	revision		
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Version Notice to reader

### **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.



Exposure Scenario: Use in	n coatings -	Industrial use	
Sector of Use	: Industrial use		
Process Category	: PROC05 PROC	C07 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. Assumes a good basic standard of occupational hygiene is implemented
General - Risk management measures	: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee 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 a good standard of controlled ventilation (10 to 15 air changes per hour).
Roller, spreader, flow application	: Provide extract ventilation to points where emissions occur.
Spraying - Manual	: Carry out in a vented booth provided with laminar airflow. or Provide a good standard of controlled ventilation (10 to 15 air changes per hour). and Wear a respirator conforming to EN140 with type A/P2 filter or better.

Control of environmental exp	osure
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	<ul> <li>External recovery and recycling of waste should comply with applicable local and/or national regulations.</li> </ul>
Additional information	

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

REACH #: 01-2119488216-32



Exposure Scenario: Use in	coatings -	Professional use
Sector of Use	: Professional use	
Process Category	: PROC05 PROC0	8a 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. Assumes a good basic standard of occupational hygiene is implemented
General - Risk management measures	: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee 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 a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour per day. or
	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 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
	or Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 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 per day.
Roller, spreader, flow application - Indoor	: Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with type A/P2 filter or better.
Roller, spreader, flow application - Outdoor	: Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 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 respirator conforming to EN140 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 exp	osure
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	<ul> <li>External recovery and recycling of waste should comply with applicable local and/or national regulations.</li> </ul>
Additional information	

The exposure scenario for the mixture is based on the following substances: PEACH #: 01.2110488216.32

REACH #: 01-2119488216-32