

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

1.1 Product identifier	
Product name	: Futura Comp A
Product code	: 4231
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.

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

**Identified uses** Use in coatings - Consumer use: Apply this product only as specified on the label.

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

EL MOHANDES JOTUN S.A.E. **INDUSTRIAL AREA - ISMAILIA** P.O. BOX NO. 203 ISMAILIA - EGYPT FAX NO.: 002064481030 TELF NO: 002064481032 SDSJotun@jotun.com

#### 1.4 Emergency telephone number

SHE Dept. Jotun AS, Norway +47 33 45 70 00

## **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 Irrit. 2, H319 STOT SE 3, H336 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.

# 2.2 Label elements

Hazard pictograms



Signal word

Hazard statements	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H319 - Causes serious eye irritation.</li> <li>H315 - Causes skin irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
General	: P102 - Keep out of reach of children.
Prevention	<ul> <li>P261 - Avoid breathing vapour.</li> <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>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P273 - Avoid release to the environment.</li> </ul>
Response	<ul> <li>P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>
Storage	: P403 - Store in a well-ventilated place. P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	<ul> <li>n-butyl acetate xylene</li> <li>2-methoxy-1-methylethyl acetate hydrocarbons, C9, aromatics, (&lt;0.1% Benzene)</li> </ul>
Supplemental label elements	: Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl methacrylate. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ents
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**

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]

2-methoxy-1-methylethyl acetate	REACH #:	≤10	Flam. Liq. 3, H226	[1] [2]
	01-2119475791-29		STOT SE 3, H336	
	EC: 203-603-9			
	CAS: 108-65-6 Index: 607-195-00-7			
hydrocarbons, C9, aromatics, (<0.	REACH #:	≤5	Flam. Liq. 3, H226	[1] [2]
1% Benzene)	01-2119455851-35		STOT SE 3, H335	1.11-1
The Benzeney	EC: 918-668-5		STOT SE 3, H336	
	CAS: 64742-95-6		Asp. Tox. 1, H304	
			Aquatic Chronic 2, H411	
ethylbenzene	REACH #:	≤5	Flam. Liq. 2, H225	[1] [2]
5	01-2119489370-35		Acute Tox. 4, H332	
	EC: 202-849-4		STOT RE 2, H373 (hearing	
	CAS: 100-41-4		organs)	
	Index: 601-023-00-4		Asp. Tox. 1, H304	
methyl methacrylate	REACH #:	≤0.3	Flam. Liq. 2, H225	[1] [2]
	01-2119452498-28		Skin Irrit. 2, H315	
	EC: 201-297-1		Skin Sens. 1, H317	
	CAS: 80-62-6		STOT SE 3, H335	
	Index: 607-035-00-6	10.0	011 0 4 11047	[4]
bis(1,2,2,6,6-pentamethyl-	REACH #:	≤0.3	Skin Sens. 1, H317	[1]
4-piperidyl) sebacate	01-2119491304-40		Aquatic Acute 1, H400 (M=1)	
	EC: 255-437-1 CAS: 41556-26-7		Aquatic Chronic 1, H410	
	CAS. 41556-20-7		(M=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

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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	<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.

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

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### **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 methyl methacrylate, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.

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

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

See toxicological information (Section 11)

## **SECTION 5: Firefighting measures**

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5.1 Extinguishing media Suitable extinguishing media	Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.	
Unsuitable extinguishing media	Do not use water jet.	
5.2 Special hazards arising fr	the substance or mixture	
Hazards from the substance or mixture	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.	
Hazardous combustion products	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.	
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 drains or watercourses.	to
Special protective equipment for fire-fighters	Appropriate breathing apparatus may be required.	

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

6.1 Personal precautions, protective 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".		

### **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)

: Not available.

#### **Recommendations** Industrial sector specific solutions

- : Not available.

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
xylene	EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list of indicative occupational exposure limit values STEL: 442 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m <sup>3</sup> 8 hours.
2-methoxy-1-methylethyl acetate	TWA: 50 ppm 8 hours. <b>EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list</b> <b>of indicative occupational exposure limit values</b> STEL: 550 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
hydrocarbons, C9, aromatics, (<0.1% Benzene)	EU OEL (Europe, 6/2000). TWA: 100 mg/m³ 8 hours. Form: All forms
ethylbenzene	TWA: 20 ppm 8 hours. Form: All forms <b>EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list</b> <b>of indicative occupational exposure limit values</b> TWA: 100 ppm 8 hours. TWA: 442 mg/m <sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m <sup>3</sup> 15 minutes.
methyl methacrylate	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

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
n-butyl acetate	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	Systemic
	Short term Inhalation	960 mg/m³	Workers	Local
	Long term Inhalation	480 mg/m³	Workers	Systemic
	Long term Inhalation	480 mg/m³	Workers	Local
	Short term Inhalation	859.7 mg/ m³	Consumers	Systemic
	Short term Inhalation	859.7 mg/ m <sup>3</sup>	Consumers	Local
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	Long term	102.34 mg/	Consumers	Systemic
	Inhalation	m³ Č		
	Long term	102.34 mg/	Consumers	Local
	Inhalation	m³ Ö		
xylene	Short term	289 mg/m <sup>3</sup>	Workers	Systemic
,	Inhalation	5		,
	Short term Inhalation	289 mg/m³	Workers	Local
	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	Long term Inhalation	77 mg/m³	Workers	Systemic
	Long term Dermal	108 mg/kg bw/day	Consumers	Systemic
	Long term Inhalation	14.8 mg/m <sup>3</sup>	Consumers	Systemic
	Long term Oral	1.6 mg/kg bw/day	Consumers	Systemic
2-methoxy-1-methylethyl acetate	Long term Dermal	153.5 mg/ kg bw/day	Workers	Systemic
	Long term Inhalation	275 mg/m <sup>3</sup>	Workers	Systemic
	Long term Dermal	54.8 mg/ kg bw/day	Consumers	Systemic
	Long term Inhalation	33 mg/m <sup>3</sup>	Consumers	Systemic
	Long term Oral	1.67 mg/ kg bw/day	Consumers	Systemic
hydrocarbons, C9, aromatics, (<0.1% Benzene)	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	Long term Inhalation	150 mg/m <sup>3</sup>	Workers	Systemic
	Long term Dermal	11 mg/kg bw/day	Consumers	Systemic
	Long term Inhalation	32 mg/m³	Consumers	Systemic
	Long term Oral	11 mg/kg bw/day	Consumers	Systemic
ethylbenzene	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	Long term Inhalation	77 mg/m³	Workers	Systemic
	Long term Inhalation	15 mg/m³	Consumers	Systemic
	Long term Oral	1.6 mg/kg bw/day	Consumers	Systemic

## **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
n-butyl acetate	Fresh water	0.18 mg/l	-
-	Marine	0.018 mg/l	-
	Sewage Treatment	35.6 mg/l	-
	Plant	Ŭ	
	Fresh water sediment	0.981 mg/kg dwt	-
	Marine water sediment	0.0981 mg/kg dwt	-
	Soil	0.0903 mg/kg dwt	
xylene	Fresh water	0.327 mg/l	-
	Marine	0.327 mg/l	-
	Sewage Treatment	6.58 mg/l	-
	Plant	0	
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Sewage Treatment

Fresh water sediment

Secondary Poisoning

Marine

Plant

Soil

0.01 mg/l

13.7 mg/kg dwt 2.68 mg/kg dwt

9.6 mg/l

20 mg/kg

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SECTION 8: Exposure control	SECTION 8: Exposure controls/personal protection					
	Fresh water sediment	12.46 mg/kg dwt	-			
	Marine water sediment	12.46 mg/kg dwt	-			
	Soil	2.31 mg/kg dwt	-			
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l	-			
	Marine	0.0635 mg/l	-			
	Sewage Treatment	100 mg/l	-			
	Plant					
	Fresh water sediment	3.29 mg/kg dwt	-			
	Marine water sediment	0.329 mg/kg dwt	-			
	Soil	0.29 mg/kg dwt	-			
ethylbenzene	Fresh water	0.1 mg/l	-			
-			1			

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.
ndividual protection meas	sures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, befo eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing 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	
Gloves	<ul> <li>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.</li> <li>Gloves should be replaced regularly and if there is any sign of damage to the glove material.</li> <li>Always ensure that gloves are free from defects and that they are stored and used correctly.</li> <li>The performance or effectiveness of the glove may be reduced by physical/chemic damage and poor maintenance.</li> <li>Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.</li> <li>Wear suitable gloves tested to EN374.</li> <li>May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber, nitrile rubber,</li> </ul>
	PVC, Viton® Not recommended, gloves(breakthrough time) < 1 hour: neoprene, PE Recommended, gloves(breakthrough time) > 8 hours: Teflon, 4H, 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	<ul> <li>Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.</li> </ul>

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

Other skin protection	<ul> <li>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.</li> </ul>
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 physica	and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Characteristic.
Odour threshold	: Not applicable.
рН	: Not applicable.
Melting point/freezing point	: Not applicable.
Initial boiling point and boiling range	: Lowest known value: 126°C (258.8°F) (n-butyl acetate). Weighted average: 134. 4°C (273.9°F)
Flash point	: Closed cup: 25°C
Evaporation rate	: Highest known value: 1 (n-butyl acetate) Weighted average: 0.77compared with butyl acetate
Flammability (solid, gas)	: Not applicable.
Upper/lower flammability or explosive limits	: 0.8 - 7.6%
Vapour pressure	<ul> <li>Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate).</li> <li>Weighted average: 1.05 kPa (7.88 mm Hg) (at 20°C)</li> </ul>
Vapour density	: Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.98 (Air = 1)
Density	: 1.125 to 1.3 g/cm <sup>3</sup>
Solubility(ies)	: Very slightly soluble in the following materials: cold water. Insoluble in the following materials: hot water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Lowest known value: 333°C (631.4°F) (2-methoxy-1-methylethyl acetate).
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C): >0.205 cm <sup>2</sup> /s (>20.5 mm <sup>2</sup> /s)
Explosive properties	: Not available.
Oxidising properties	: Not available.

#### 9.2 Other information

No additional information.

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

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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	:	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. 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 methyl methacrylate, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction. Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	13100 mg/kg	-
xylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
ethylbenzene	LC50 Inhalation Gas.	Rabbit	4000 ppm	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
methyl methacrylate	LC50 Inhalation Vapour	Rat	78000 mg/m <sup>3</sup>	4 hours
-	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-

Conclusion/Summary :

: Not available.

: Not available.

Acute toxicity estimates

Route	ATE value	
	10657.1 mg/kg 79.97 mg/l	

### Irritation/Corrosion

Conclusion/Summary

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

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Conclusion/Summary	: Not available.
Mutagenicity	
<b>Conclusion/Summary</b>	: Not available.
<b>Carcinogenicity</b>	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
<b>Teratogenicity</b>	
Conclusion/Summary	: Not available.

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

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate 2-methoxy-1-methylethyl acetate hydrocarbons, C9, aromatics, (<0.1% Benzene)	Category 3 Category 3 Category 3	Not applicable. Not applicable. Not applicable.	Narcotic effects Narcotic effects Respiratory tract irritation and Narcotic effects
methyl methacrylate	Category 3	Not applicable.	Respiratory tract irritation

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

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	Not determined	hearing organs

**Aspiration hazard** 

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

### **Other information** : Not available.

### **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
hydrocarbons, C9, aromatics, (<0.1% Benzene)	Acute EC50 <10 mg/l	Daphnia	48 hours
ethylbenzene	Acute IC50 <10 mg/l Acute LC50 <10 mg/l Acute EC50 7.2 mg/l Acute EC50 2.93 mg/l Acute LC50 4.2 mg/l	Algae Fish Algae Daphnia Fish	72 hours 96 hours 48 hours 48 hours 96 hours

**Conclusion/Summary** 

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

#### 12.2 Persistence and degradability

Conclusion/Summary	: Not available.		Biodegradabi	ity
Product/ingredient name	Aquatic half-life	Photolysis		
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S	SECTION 12: Ecological information			
	xylene hydrocarbons, C9,	-	-	Readily Not readily
	aromatics, (<0.1% Benzene) ethylbenzene bio(1.2.2.6. pontamethyl	-	-	Readily
	bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	-	-	Not readily

### 12.3 Bioaccumulative potential

2.3 Bioaccumulative potential		Potential	
Product/ingredient name	LogPow	BCF	
n-butyl acetate	2.3	-	low
xylene	3.12	8.1 to 25.9	low
2-methoxy-1-methylethyl acetate	1.2	-	low
hydrocarbons, C9, aromatics, (<0.1% Benzene)	-	10 to 2500	high
ethylbenzene	3.6	-	low
methyl methacrylate	1.38	-	low

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

12.5 Results of PBT	and vPvB	assessment
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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	1	The classification of the product may meet the criteria for a hazardous waste.
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)	1	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.

# SECTION 13: Disposal considerations

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Disposal considerations	the relevant wa Empty containe	on provided in this safety data sheet, advice should be obtained from ste authority on the classification of empty containers. ers must be scrapped or reconditioned. tainers contaminated by the product in accordance with local or rovisions.
Type of packaging		European waste catalogue (EWC)
CEPE Paint Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special precautions	taken when han Empty containe residues may c container. Do r thoroughly inter	nd its container must be disposed of in a safe way. Care should be ndling emptied containers that have not been cleaned or rinsed out. ers or liners may retain some product residues. Vapour from product reate a highly flammable or explosive atmosphere inside the not cut, weld or grind used containers unless they have been cleaned rnally. Avoid dispersal of spilt material and runoff and contact with , drains and sewers.

# **SECTION 14: Transport information**

	•			
	ADR/RID	ADN	IMDG	IATA
14.1 UN number	1263	1263	1263	1263
14.2 UN proper shipping name	Paint	Paint	Paint	Paint
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group		111	111	111
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional information	Tunnel restriction code: (D/E) Hazard identification number: 30	The product is only regulated as an environmentally hazardous substance when transported in tank vessels.	<u>Emergency</u> <u>schedules (EmS)</u> F-E, <u>S-E</u>	The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for user	r :	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
ADR / RID	:	ADR/RID: Viscous substance. Not restricted, ref. chapter 2.2.3.1.5 (applicable to receptacles < 450 litre capacity).
IMDG	:	IMDG: Viscous substance. Transport in accordance with paragraph 2.3.2.5 (applicable to receptacles < 30 litre capacity).
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	:	Not applicable.

# **SECTION 15: Regulatory information**

45.4. Opfoto, hogelikh and anyth	
•	ronmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 190	
	inces subject to authorisation
Annex XIV	an Rate d
None of the components a	
Substances of very high	
None of the components a Annex XVII - Restrictions	
on the manufacture,	
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 available.
Europe inventory	: At least one component is not listed.
Ozone depleting substand	<u>ces (1005/2009/EU)</u>
Not listed.	
Prior Informed Consent (F	PIC) (649/2012/EU)
Not listed.	
Seveso Directive	
	e calculation for determining whether a site is within the scope of the Seveso Directive on
major accident hazards.	calculation for determining whether a site is within the scope of the Seveso Directive of
International regulations	
Chemical Weapon Convent	tion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol (Annexe	s A. B. C. E)
Not listed.	
Stockholm Convention on	Persistent Organic Pollutants
Not listed.	reisistent organic Fondants
	Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol or	POPs and Heavy Metals
Not listed.	
15.2 Chemical safety	: Not applicable.

assessment

## **SECTION 16: Other information**

Indicates information that has changed from previously issued	d version.
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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		
Flam. Liq. 3, H226	On basis of test data		
Skin Irrit. 2, H315	Calculation method		
Eve Irrit. 2, H319	Calculation method		
STOT SE 3, H336	Calculation method		
Aquatic Chronic 3, H412	Calculation method		

### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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, H312			(dermal) - Category 4	
Acute Tox. 4, H332			(inhalation) - Category 4	
Aquatic Acute 1, H400			AZARD - Category 1	
Aquatic Chronic 1, H410			TIC HAZARD - Categor	
Aquatic Chronic 2, H411			ATIC HAZARD - Categor	
Aquatic Chronic 3, H412			ATIC HAZARD - Category	y 3
Asp. Tox. 1, H304		ASPIRATION HAZA		
EUH066			may cause skin dryness	
Eye Irrit. 2, H319		SERIOUS EYE DAN	/IAGE/EYE IRRITATION	- Category 2
Flam. Liq. 2, H225		FLAMMABLE LIQU	DS - Category 2	
Flam. Liq. 3, H226		FLAMMABLE LIQU	DS - Category 3	
Skin Irrit. 2, H315		SKIN CORROSION	/IRRITATION - Category	2
Skin Sens. 1, H317		SKIN SENSITISATI	ON - Category 1	
STOT RE 2, H373			ORGAN ŤOXICITY - RE	EPEATED
,		EXPOSURE - Categ	porv 2	
STOT SE 3, H335			ORGAN TOXICITY - SI	NGLE EXPOSURE
			itation) - Category 3	
STOT SE 3, H336			ORGAN TOXICITY - SI	NGLE EXPOSURE
		(Narcotic effects) - (		
		(		
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### **SECTION 16: Other information**

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#### Notice to reader

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

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.