SAFETY DATA SHEET



Hardtop AX Comp A

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

1.1 Product identifier

Product name : Hardtop AX Comp A

Product code : 16480
Product description : Paint.
Product type : Liquid.

Other means of identification

: Not available.

UFI : UWMF-E1G5-K00R-5RGR

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

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

1.3 Details of the supplier of the safety data sheet

Jotun Paints (Europe) Ltd.Jotun A/SStather RoadP.O.Box 2021Flixborough, Scunthorpe3202 Sandefjord

North Lincolnshire Norway

DN15 8RR Tel: + 47 33 45 70 00 England Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no

Tel: +44 17 24 40 00 00 Fax: +44 17 24 40 01 00

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 Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412

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

Hazard pictograms





Signal word : Warning.

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SECTION 2: Hazards identification

: H226 - Flammable liquid and vapour. **Hazard statements**

> H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General : Not applicable.

: P280 - Wear protective gloves. **Prevention**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

: P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Response

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. **Storage Disposal**

: P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazardous ingredients : n-butyl acetate

> hydrocarbons, C9, aromatics 2-methoxy-1-methylethyl acetate

decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester, mixt. with

1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) decanedioate

2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl

2-propenoate, compd. with polyethylene glycol hydrogen maleate C9-11-alkyl ethers

2-Hydroxyethyl methacrylate

Supplemental label

elements

: Not applicable.

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Mixture

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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	Weight %	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] [2]
hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≤3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aguatic Chronic 2, H411	[1]
pentane-2,4-dione	REACH #: 01-2119458968-15 EC: 204-634-0 CAS: 123-54-6 Index: 606-029-00-0	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331	[1]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
decanedioic acid, 1,10-bis (1,2,2,6,6-pentamethyl-4-piperidinyl) ester, mixt. with 1-methyl 10- (1,2,2,6,6-pentamethyl-4-piperidinyl) decanedioate	CAS: 1065336-91-5	≤2.1	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
2-Propenoic acid, 2-methyl-, 2- (dimethylamino)ethyl ester, polymer with butyl 2-propenoate, compd. with polyethylene glycol hydrogen maleate C9-11-alkyl ethers	CAS: 1259547-09-5	<1	Skin Sens. 1, H317	[1]
2-Hydroxyethyl methacrylate	EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 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.

Type

- [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

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

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SECTION 4: First aid measures

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

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 : No specific data.

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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 media

: Recommended: alcohol-resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

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SECTION 5: Firefighting measures

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 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, 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".

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

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SECTION 7: Handling and storage

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

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	
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).	
•	STEL: 966 mg/m³ 15 minutes.	
	STEL: 200 ppm 15 minutes.	
	TWA: 724 mg/m ³ 8 hours.	
	TWA: 150 ppm 8 hours.	
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed	
	through skin.	
	STEL: 548 mg/m³ 15 minutes.	
	STEL: 100 ppm 15 minutes.	
	TWA: 274 mg/m ³ 8 hours.	
	TWA: 50 ppm 8 hours.	

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
n-butyl acetate	Short term Inhalation	960 mg/m³	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

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	Short term	859.7 mg/	General	Systemic
	Inhalation	m³	population	- ,
			[Consumers]	
	Short term	859.7 mg/	General	Local
	Inhalation	m³	population	Local
	IIIIIalation	***	[Consumers]	
	Long torm	102.34 mg/	General	Systemic
	Long term			Systemic
	Inhalation	m³	population	
		100.01	[Consumers]	
	Long term	102.34 mg/	General	Local
	Inhalation	m³	population	
			[Consumers]	
	Short term Oral	2 mg/kg	General	Systemic
		bw/day	population	
	Long term Oral	2 mg/kg	General	Systemic
		bw/day	population	
	Short term Dermal	6 mg/kg	General	Systemic
		bw/day	population	•
	Short term Dermal	11 mg/kg	Workers	Systemic
	Z. Z	bw/day	.,	- ,
	Long term	35.7 mg/m ³	General	Local
	Inhalation	55.7 mg/m	population	_50G1
	Short term	300 mg/m³	General	Local
		300 mg/m²		LUCAI
	Inhalation	000	population	0
	Short term	300 mg/m ³	General	Systemic
	Inhalation		population	
	Long term	300 mg/m ³	Workers	Local
	Inhalation			
	Short term	600 mg/m ³	Workers	Local
	Inhalation			
	Short term	600 mg/m ³	Workers	Systemic
	Inhalation			-
	Long term Dermal	3.4 mg/kg	General	Systemic
		bw/day	population	
	Long term Dermal	7 mg/kg	Workers	Systemic
		bw/day		- ,
	Long term	12 mg/m³	General	Systemic
	Inhalation	12 1119/111	population	Cystollio
	Long term	48 mg/m³	Workers	Systemic
	Inhalation	40 mg/m	WOIKEIS	Oysternio
hydrocarbons, C9, aromatics	Long term Dermal	25 mg/kg	Workers	Systemic
Hydrocarbons, C9, aromatics	Long term Demia		VVOIKEIS	Systernic
	Long term	bw/day 150 mg/m³	Workers	Systemic
	Long term	150 mg/m²	vvoikeis	Systemic
	Inhalation	11	Conord	Cuntomic
	Long term Dermal	11 mg/kg	General	Systemic
		bw/day	population	
	ļ. ,	00 / 0	[Consumers]	
	Long term	32 mg/m³	General	Systemic
	Inhalation		population	
			[Consumers]	
	Long term Oral	11 mg/kg	General	Systemic
		bw/day	population	
			[Consumers]	
	Long term	0.41 mg/m ³	General	Systemic
	Inhalation		population	
	Long term	1.9 mg/m ³	Workers	Systemic
	Inhalation	.		
	Long term	178.57 mg/	General	Local
	Inhalation	m ³	population	
	Short term	640 mg/m ³	General	Local
	Inhalation	5 15 mg/m	population	_5641
	Long term	837.5 mg/	Workers	Local
	Long telli	Jor.J IIIg/	V V OI NGI S	Local
I	I			I

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	Inhalation	m³		
	Short term	1066.67	Workers	Local
	Inhalation	mg/m³	WOIKEIS	Local
	Short term		General	Systemic
		1152 mg/ m³		Systemic
	Inhalation		population	Cuatamia
	Short term	1286.4 mg/	Workers	Systemic
	Inhalation	m³		
pentane-2,4-dione	Long term Oral	7 mg/kg	General	Systemic
		bw/day	population	
	Long term Dermal	12 mg/kg	Workers	Systemic
		bw/day		
	Long term	84 mg/m³	Workers	Systemic
	Inhalation			
2-methoxy-1-methylethyl acetate	Long term Dermal	153.5 mg/	Workers	Systemic
		kg bw/day		
	Long term	275 mg/m ³	Workers	Systemic
	Inhalation			-,
	Long term Dermal	54.8 mg/	General	Systemic
	Long tomi Berman	kg bw/day	population	Cystonio
		ng bwaay	[Consumers]	
	Long term	33 mg/m³	General	Systemic
	Inhalation	JJ HIg/III		Oysicillic
	IIIIIaiatiUII		population	
		1.67 "/	[Consumers]	Curata waii a
	Long term Oral	1.67 mg/	General	Systemic
		kg bw/day	population	
			[Consumers]	
	Long term	33 mg/m³	General	Local
	Inhalation		population	
	Long term	33 mg/m³	General	Systemic
	Inhalation		population	
	Long term Oral	36 mg/kg	General	Systemic
		bw/day	population	·
	Long term	275 mg/m ³	Workers	Systemic
	Inhalation	3		,
	Long term Dermal	320 mg/kg	General	Systemic
	20119 101111 20111101	bw/day	population	- ,
	Short term	550 mg/m ³	Workers	Local
	Inhalation	ooo mg/m	WOIKOIO	Local
	Long term Dermal	796 mg/kg	Workers	Systemic
	Long term Dermai		WOIKEIS	Systemic
decemedicie seid 1 10 bis	Lang tarm Oral	bw/day	Conoral	Customia
decanedioic acid, 1,10-bis	Long term Oral	0.18 mg/	General	Systemic
(1,2,2,6,6-pentamethyl-4-piperidinyl) ester,		kg bw/day	population	
mixt. with 1-methyl 10-				
(1,2,2,6,6-pentamethyl-4-piperidinyl)				
decanedioate	. .			
	Long term	0.31 mg/m ³		Systemic
	Inhalation		population	
	Long term Dermal	0.9 mg/kg	General	Systemic
		bw/day	population	
	Long term	1.27 mg/m ³	Workers	Systemic
	Inhalation			
	Long term Dermal	1.8 mg/kg	Workers	Systemic
		bw/day		
2-Hydroxyethyl methacrylate	Long term Oral	0.83 mg/	General	Systemic
		kg bw/day	population	*
	Long term Dermal	0.83 mg/	General	Systemic
]	kg bw/day	population	'
	Long term Dermal	1.3 mg/kg	Workers	Systemic
	Long tomi Demial	bw/day	77011010	Cyclonic
	Long term	2.9 mg/m ³	General	Systemic
	Inhalation	2.9 mg/m		Oystellille
		10 ma/m3	population Workers	Systemia
	Long term	4.9 mg/m ³	vvoikeis	Systemic
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SECTION 8: Exposure controls/personal protection

Inhalation

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 Plant	35.6 mg/l	-
	Fresh water sediment	0.981 mg/kg dwt	_
	Marine water sediment	0.0981 mg/kg dwt	-
	Soil	0.0903 mg/kg dwt	
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l	-
	Marine	0.0635 mg/l	-
	Sewage Treatment Plant	100 mg/l	-
	Fresh water sediment	3.29 mg/kg dwt	_
	Marine water sediment	0.329 mg/kg dwt	-
	Soil	0.29 mg/kg dwt	-

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

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: safety glasses with sideshields.

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: PE

Recommended, gloves(breakthrough time) > 8 hours: Teflon, polyvinyl alcohol (PVA), butyl rubber

May be used, gloves(breakthrough time) 4 - 8 hours: 4H, neoprene, nitrile rubber, PVC, Viton®

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

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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.

Personnel should wear antistatic clothing made of natural fibres or of high-**Body protection**

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.

: If workers are exposed to concentrations above the exposure limit, they must use a **Respiratory protection**

> 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

Appearance

Physical state : Liquid.

Colour : Brown., Black, Blue., Brown., Clear., Green., Grey, MCI Base 1, MCI Base 2,

MCI Base 3, MCI Base 5, MCI Base 6, Off-white., Orange, Orange, Red, Violet.,

White., Yellow., Yellow-base

: Characteristic. Odour **Odour threshold** Not applicable.

pН : Not applicable.

Melting point/freezing point

Initial boiling point and

boiling range

Lowest known value: 126°C (258.8°F) (n-butyl acetate). Weighted average:

134.09°C (273.4°F)

Flash point : Closed cup: 28°C

Evaporation rate Highest known value: 1 (n-butyl acetate) Weighted average: 0.91compared with

butyl acetate

: Not applicable.

Flammability (solid, gas) Upper/lower flammability or

explosive limits

: Not applicable. : 1.05 - 11.6%

Vapour pressure Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate).

Weighted average: 1.34 kPa (10.05 mm Hg) (at 20°C)

Vapour density : Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate).

Weighted average: 4 (Air = 1)

Density : 1.323 to 1.509 g/cm³

Solubility(ies) : Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9,

aromatics).

Decomposition temperature Not available.

: Kinematic (40°C): >20.5 mm²/s (>20.5 cSt) **Viscosity**

Explosive properties : Not available. **Oxidising properties** Not available.

9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- : No specific test data related to reactivity available for this product or its ingredients.
- : Stable under recommended storage and handling conditions (see Section 7).
- : 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

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	-
pentane-2,4-dione	LD50 Oral	Mouse	951 mg/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 mg/kg	-
2-Hydroxyethyl methacrylate	LD50 Oral	Rat	5050 mg/kg	-

Acute toxicity estimates

Route	ATE value	
Dermal	39157.82 mg/kg 23494.69 mg/kg 234.95 mg/l	

Irritation/Corrosion

Product/ingredient name	Exposure	Species	Score	Exposure	Observation
pentane-2,4-dione	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	488	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	6 hours 11.2 Mililiters	-
				Intermittent	
	Skin - Moderate irritant	Rabbit	_	48 hours	-
				11.2 Mililiters	
				Intermittent	
	Skin - Moderate irritant	Rabbit	-	6 hours 33.6	-
				Mililiters Intermittent	
2-Hydroxyethyl methacrylate	Skin - Mild irritant	Mammal -	_	-	_
		species			
		unspecified			
	Eyes - Mild irritant	Mammal -	-	-	-

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SECTION 11: Toxicological information

species		
unspecified		

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, compd. with polyethylene glycol hydrogen maleate C9-11-alkyl ethers	skin	Mammal - species unspecified	Sensitising
2-Hydroxyethyl methacrylate	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)

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate hydrocarbons, C9, aromatics	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3 Category 3	-	Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Based on available data, the classification criteria are not met.

Aspiration hazard

Product/ingredient name	Result
hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1

Other information : None identified.

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	Acute EC50 <10 mg/l	Daphnia	48 hours
	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
pentane-2,4-dione	Acute EC50 75000 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata - Larvae	48 hours
	Acute LC50 47600 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 60100 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours

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SECTION 12: Ecological information

decanedioic acid, 1,10-bis	Acute EC50 1.68 mg/l	Algae	96 hours
(1,2,2,6,6-pentamethyl-			
4-piperidinyl) ester, mixt.			
with 1-methyl 10-			
(1,2,2,6,6-pentamethyl-			
4-piperidinyl) decanedioate			
	Acute LC50 0.9 mg/l	Fish	96 hours
	Chronic NOEC 1 mg/l	Daphnia	21 days

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

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
hydrocarbons, C9, aromatics	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
hydrocarbons, C9, aromatics	-	10 to 2500	high
pentane-2,4-dione	0.68	-	low
2-methoxy-1-methylethyl	1.2	-	low
acetate			
2-Hydroxyethyl methacrylate	0.42	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: Yes.

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)

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

: 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.

Hational logal provisions.		
Result		European waste catalogue (EWC)
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

Special precautions

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint	Paint
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID

: ADR/RID: Viscous substance. Not restricted, ref. chapter 2.2.3.1.5 (applicable to receptacles < 450 litre capacity).

Hazard identification number 30

Tunnel code (D/E)

ADN

: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

IMDG

: IMDG: Viscous substance. Transport in accordance with paragraph 2.3.2.5 (applicable to receptacles < 450 litre capacity).

Emergency schedules F-E, S-E

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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SECTION 14: Transport information

user

14.6 Special precautions for : Transport within user's premises: 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.

14.7 Transport in bulk according to IMO instruments

: Not applicable.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions

: Not applicable. on the manufacture,

placing on the market

and use of certain

dangerous substances,

mixtures and articles

Other EU regulations

VOC for Ready-for-Use

VOC

: Not available.

Mixture

Europe inventory : At least one component is not listed.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

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.

: 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.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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SECTION 15: Regulatory information

Not listed.

UNECE Aarhus Protocol on 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 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

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 Sens. 1, H317	Calculation method
STOT SE 3, H336	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.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A

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SECTION 16: Other information

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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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.

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