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

1.1 Product identifier

Product name : Hardtop XP Alu Comp A UFI : P6HJ-T1A1-400E-3SHU

Product code : 17520
Product description : Paint.
Product type : Liquid.

Other means of : Not available.

identification

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

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

1.3 Details of the supplier of the safety data sheet

Jotun A/S Jotun Paints (Europe) Ltd.

P.O.Box 2021 Stather Road

3202 Sandefjord Flixborough, Scunthorpe Norway North Lincolnshire

Tel: + 47 33 45 70 00 DN15 8RR Fax: +47 33 45 72 42 England

E-mail: SDSJotun@jotun.no

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

1.4 Emergency telephone number

National advisory body/Poison Centre

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

Supplier

Telephone number: +47 33 45 70 00 Jotun Norway (head office)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

<u>Classification according to UK CLP/GHS</u>

Flam. Liq. 3, H226 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

Hazard pictograms :





Signal word : Warning.

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SECTION 2: Hazards identification

Hazard statements : H226 - Flammable liquid and vapour.

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General : Not applicable.

Prevention: P280 - Wear protective gloves.

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.

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.

Storage : Not applicable.

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

national and international regulations.

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 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

Product/ingredient name	Identifiers	%	Classification	Type
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≥10 - ≤17	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Aluminium powder (stabilized)	REACH #: 01-2119529243-45 EC: 231-072-3	≤10	Flam. Sol. 1, H228 Water-react. 2, H261	[2]

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SECTION 3: Composition/information on ingredients

-				
othylbonzono	CAS: 7429-90-5 Index: 013-002-00-1	≤ 3	Flow Lie 2 H225	[4] [9]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4	53	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs)	[1] [2]
	Index: 601-023-00-4		Asp. Tox. 1, H304 Aquatic Chronic 3, H412	
hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6	≤2.7	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	REACH #: 01-2119457273-39 EC: 265-150-3 CAS: 64742-48-9	≤3	Asp. Tox. 1, H304 EUH066	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤1	Carc. 2, H351 (inhalation)	[1] [2] [*]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1	≤0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
2-methoxy-1-methylethyl acetate	Index: 603-108-00-1 REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤0.3	STOT SE 3, H336 Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Hexanoic acid, 2-ethyl-, zinc salt, basic	REACH #: 01-2119979093-30 EC: 286-272-3 CAS: 85203-81-2	≤0.3	Eye Irrit. 2, H319 Repr. 2, H361d Aquatic Chronic 3, H412	[1]
n-butyl methacrylate	REACH #: 01-2119486394-28 EC: 202-615-1 CAS: 97-88-1 Index: 607-033-00-5	≤0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335	[1]
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-	CAS: 1065336-91-5	≤0.3	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1,	[1]
4-piperidinyl) decanedioate 2-Hydroxyethyl methacrylate	EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X	≤0.3	H410 (M=1) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
mesitylene	EC: 203-604-4 CAS: 108-67-8 Index: 601-025-00-5	≤0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2,	[1] [2]
diiron trioxide	REACH #: 01-2119457614-35 EC: 215-168-2 CAS: 1309-37-1	≤0.1	Not classified.	[2]
n-butyl acrylate	REACH #:	≤0.1	Flam. Liq. 3, H226	[1] [2]

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SECTION 3: Composition/information on ingredients

SECTION 3: Composition	n/information on ing	greatents		
	01-2119453155-43 EC: 205-480-7 CAS: 141-32-2 Index: 607-062-00-3		Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412	
carbon black	REACH #: 01-2119384822-32 EC: 215-609-9 CAS: 1333-86-4	≤0.1	Not classified.	[2]
Oleic acid, compound	EC: 251-846-4 CAS: 34140-91-5	≤0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411	[1]
talc (non-asbestos form)	EC: 238-877-9 CAS: 14807-96-6	≤0.1	Not classified.	[2]
silica, amorphous, fumed, cryst free	REACH #: 01-2119379499-16 EC: 231-545-4 CAS: 112945-52-5	≤0.1	Not classified.	[2]
phosphoric acid	EC: 231-633-2 CAS: 7664-38-2	≤0.1	Skin Corr. 1B, H314 Eye Dam. 1, H318	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤0.1	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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

<u>I ype</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eve contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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

Contains n-butyl methacrylate, 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-hydroxyethyl methacrylate. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

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

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SECTION 4: First aid measures

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, 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

Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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SECTION 6: Accidental release measures

Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

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

See Technical Data Sheet / packaging for further information.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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SECTION 8: Exposure controls/personal protection

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/m³ 8 hours.
	TWA: 150 ppm 8 hours.
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 441 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
Aluminium powder (stabilized)	EH40/2005 WELs (United Kingdom (UK), 1/2020).
Ald Hilliam powder (Stabilized)	TWA: 4 mg/m³ 8 hours. Form: respirable dust
	TWA: 10 mg/m ³ 8 hours. Form: inhalable dust
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
outy is on zon o	through skin.
	STEL: 552 mg/m³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m³ 8 hours.
hydrocarbons, C10-C13, n-alkanes, isoalkanes,	EH40/2005 WELs (United Kingdom (UK), 1/2005).
cyclics, < 2% aromatics	STEL: 850 mg/m³ 15 minutes. Form: All forms
	STEL: 150 ppm 15 minutes. Form: All forms
	TWA: 566 mg/m ³ 8 hours. Form: All forms
	TWA: 100 ppm 8 hours. Form: All forms
titanium dioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 4 mg/m³ 8 hours. Form: respirable
	TWA: 10 mg/m³ 8 hours. Form: total inhalable
2-methylpropan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 231 mg/m³ 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 154 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
2 mathavy 1 mathydathyd agatata	···
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.
	STEL: 548 mg/m³ 15 minutes.
	STEL: 340 fig/fit 13 minutes.
	TWA: 274 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
mesitylene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 25 ppm 8 hours.
	TWA: 125 mg/m³ 8 hours.
diiron trioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 10 mg/m³, (as Fe) 15 minutes. Form: Fume
	TWA: 5 mg/m³, (as Fe) 8 hours. Form: Fume
	TWA: 4 mg/m³ 8 hours. Form: respirable
	TWA: 10 mg/m³ 8 hours. Form: total inhalable
n-butyl acrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 26 mg/m³ 15 minutes.
	STEL: 5 ppm 15 minutes.
	TWA: 5 mg/m³ 8 hours.
	TV/A: 1 ppm 0 hours
	TWA: 1 ppm 8 hours.
carbon black	EH40/2005 WELs (United Kingdom (UK), 1/2020).
carbon black	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 7 mg/m³ 15 minutes.
	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 7 mg/m³ 15 minutes. TWA: 3.5 mg/m³ 8 hours.
carbon black talc (non-asbestos form)	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 7 mg/m³ 15 minutes.

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SECTION 8: Exposure controls/personal protection

silica, amorphous, fumed, crystfree	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 2.4 mg/m³ 8 hours. Form: respirable dust
	TWA: 6 mg/m³ 8 hours. Form: inhalable dust
phosphoric acid	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 2 mg/m³ 15 minutes.
	TWA: 1 mg/m³ 8 hours.
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m³ 15 minutes.
	TWA: 191 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
maleic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation
	sensitiser.
	STEL: 3 mg/m³ 15 minutes.
	TWA: 1 mg/m³ 8 hours.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

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

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
n-butyl acetate	DNEL	Short term Inhalation	960 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	480 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	480 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	859.7 mg/ m³	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	859.7 mg/ m³	General population [Consumers]	Local
	DNEL	Long term Inhalation	102.34 mg/ m³	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	102.34 mg/ m³	General population [Consumers]	Local
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m³	General population	Local
	DNEL	Short term	300 mg/m ³	General	Local

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SECTION 8: Exposure controls/personal protection

	<u> </u>		<u> </u>			
			Inhalation		population	
		DNEL	Short term	300 mg/m ³	General	Systemic
			Inhalation		population	
		DNEL	Long term	300 mg/m ³	Workers	Local
			Inhalation			
		DNEL	Short term	600 mg/m³	Workers	Local
			Inhalation			
		DNEL	Short term	600 mg/m ³	Workers	Systemic
			Inhalation			-
		DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			-	bw/day	population	
		DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
			0	bw/day		,
		DNEL	Long term	12 mg/m³	General	Systemic
			Inhalation	Ü	population	
		DNEL	Long term	48 mg/m³	Workers	Systemic
			Inhalation			-,
X۱	/lene	DNEL	Long term	65.3 mg/m ³	General	Local
1	,,,,,,,	5.122	Inhalation	00.0 mg/m	population	Local
		DNEL	Short term	260 mg/m ³	General	Local
		DIVLL	Inhalation	200 1119/111	population	Loodi
		DNEL	Short term	260 mg/m ³	General	Systemic
		PINEL	Inhalation	200 mg/m	population	Cysternic
		DNEI		221 mg/m³		Local
		DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
		DNE		10 E mal	Conoral	Cuatamia
		DNEL	Long term Oral	12.5 mg/	General	Systemic
		5.151		kg bw/day	population	
		DNEL	Long term	65.3 mg/m ³		Systemic
			Inhalation		population	
		DNEL	Long term Dermal	125 mg/kg	General	Systemic
				bw/day	population	
		DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
				bw/day		
		DNEL	Long term	221 mg/m ³	Workers	Systemic
			Inhalation			
		DNEL	Short term	442 mg/m ³	Workers	Local
			Inhalation			
		DNEL	Short term	442 mg/m ³	Workers	Systemic
			Inhalation			
Α	luminium powder (stabilized)	DNEL	Long term	3.72 mg/m ³	Workers	Local
	. , ,		Inhalation	· ·		
		DNEL	Long term	3.72 mg/m ³	Workers	Systemic
			Inhalation	Ū		
		DNEL	Long term Oral	3.95 mg/	General	Systemic
			· ·	kg bw/day	population	
et	thylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
	,		201.9 101111 0101	bw/day	population	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		DNEL	Long term	15 mg/m ³	General	Systemic
			Inhalation		population	- ,
		DNEL	Long term	77 mg/m³	Workers	Systemic
		DIVLL	Inhalation	77 mg/m	WOIKOIS	Cyclerino
		DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
		DINLL	Long term Dermai	bw/day	WOIKEIS	Oysternic
		DNEL	Short term	293 mg/m ³	Workers	Local
		DINEL	Inhalation	293 mg/m	WOIKEIS	Lucai
		חארו		110 ma/m3	Morkoro	Local
		DMEL	Long term	442 mg/m ³	Workers	Local
		רוארי	Inhalation	004 3	Morke ==	Cyntonsia
		DMEL	Short term	884 mg/m ³	Workers	Systemic
.		ם איים:	Inhalation	40.5	\\/ = \\\ - \\ - \\	O. and a mark
h	ydrocarbons, C9, aromatics	DNEL	Long term Dermal	12.5 mg/	Workers	Systemic
		D. :-:	1 4 .	kg bw/day	3471	0
		DNEL	Long term	151 mg/m ³	Workers	Systemic
		DNE:	Inhalation	- - "		
		DNEL	Long term Dermal	7.5 mg/kg	General	Systemic
1			<u> </u>		<u> </u>	<u> </u>

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•	•	<u> </u>			
			bw/day	population	
1				[Consumers]	
1	DNEL	Long term	32 mg/m³	General	Systemic
1		Inhalation	· ·	population	
l l				[Consumers]	
1	DNEL	Long term Oral	7.5 mg/kg	General	Systemic
1	DIVLL	Long term Oral	bw/day	population	Oysternic
1			DW/day		
0 11 1	DAIE	1	FF	[Consumers]	0
2-methylpropan-1-ol	DNEL	Long term	55 mg/m³	General	Systemic
l l		Inhalation		population	
1	DNEL	Long term	310 mg/m ³	Workers	Systemic
1		Inhalation	_		
1	DNEL	Long term	55 mg/m³	General	Local
1		Inhalation	3.	population	
1	DNEL	Long term	310 mg/m ³	Workers	Local
1	DIVLL	Inhalation	3 to mg/m	WORKEIS	Local
0	DAIE		450.5	147	0
2-methoxy-1-methylethyl acetate	DNEL	Long term Dermal	153.5 mg/	Workers	Systemic
l l			kg bw/day		
1	DNEL	Long term	275 mg/m ³	Workers	Systemic
1		Inhalation			
1	DNEL	Long term Dermal	54.8 mg/	General	Systemic
1		9	kg bw/day	population	,
<u> </u>			2 day	[Consumers]	
1	DNEL	Long term	33 mg/m³	General	Systemic
1	DIVLL		33 mg/m		Systemic
1		Inhalation		population	
1				[Consumers]	
1	DNEL	Long term Oral	1.67 mg/	General	Systemic
1			kg bw/day	population	
1				[Consumers]	
1	DNEL	Long term	33 mg/m³	General	Local
l l		Inhalation		population	
l l	DNEL	Long term	33 mg/m³	General	Systemic
1	DIVLL	Inhalation	33 mg/m	population	Oystornic
l l	DNIEL		26 ma/ka		Customia
1	DNEL	Long term Oral	36 mg/kg	General	Systemic
1			bw/day	population	
l l	DNEL	Long term	275 mg/m ³	Workers	Systemic
l l		Inhalation			
l l	DNEL	Long term Dermal	320 mg/kg	General	Systemic
l l			bw/day	population	
l l	DNEL	Short term	550 mg/m ³	Workers	Local
l l		Inhalation	g,		
l l	DNEL	Long term Dermal	796 mg/kg	Workers	Systemic
l l	DIVLL	Long term Dermai		VVOINCIS	Systemic
	DNE	l t O l	bw/day	0	C t : -
Hexanoic acid, 2-ethyl-, zinc salt,	DNEL	Long term Oral	3.21 mg/	General	Systemic
basic			kg bw/day	population	
<u> </u>	DNEL	Long term Dermal	3.21 mg/	General	Systemic
<u> </u>			kg bw/day	population	
<u> </u>	DNEL	Long term Dermal	6.41 mg/	Workers	Systemic
			kg bw/day		
<u> </u>	DNEL	Long term	10.42 mg/	General	Systemic
<u> </u>	DINCL	Inhalation	m ³	population	Cystollio
l l	DNE				C t : -
<u> </u>	DNEL	Long term	20.83 mg/	Workers	Systemic
l l		Inhalation	m³		
n-butyl methacrylate	DNEL	Long term Dermal	3 mg/kg	General	Systemic
l l			bw/day	population	
<u> </u>	DNEL	Long term Dermal	5 mg/kg	Workers	Systemic
<u> </u>		_	bw/day		,
<u> </u>	DNEL	Long term	66.5 mg/m ³	General	Systemic
<u> </u>	J. 1LL	Inhalation	55.5 mg/m	population	5,01011110
<u> </u>	DNEI		366 1 mal	General	Local
<u> </u>	DNEL	Long term	366.4 mg/		LUGAI
1	D	Inhalation	m ³	population	
<u> </u>	DNEL	Long term	409 mg/m ³	Workers	Local
<u> </u>		Inhalation			
1	DNEL	Long term	415.9 mg/	Workers	Systemic
1					

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			Inhalation	m³		
		DNEL	Short term Dermal	1 %	General	Local
					population	
		DNEL	Long term Dermal	1 %	General	Local
					population	
		DNEL	Short term Dermal	1 %	Workers	Local
		DNEL	Long term Dermal	1 %	Workers	Local
deca	anedioic acid, 1,10-bis	DNEL	Long term Oral	0.18 mg/	General	Systemic
	,2,6,6-pentamethyl-4-piperidinyl)			kg bw/day	population	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	r, mixt. with 1-methyl 10-			ng 5maay	population	
	,2,6,6-pentamethyl-4-piperidinyl)					
	anedioate					
ueca	ariedioate	DNEL	Long term	0.31 mg/m ³	General	Systemic
		DINLL	Inhalation	0.51 mg/m	population	Oysternic
		DNEL	Long term Dermal	0.9 mg/kg	General	Systemic
		DINLL	Long term Dermai	bw/day	population	Systernic
		DNEL	Long term	1.27 mg/m ³	Workers	Systemic
		DINEL	Inhalation	1.27 mg/m	VVOIKEIS	Systernic
		DNEL		1 0 //	\\/aulcaua	Cuatamaia
		DNEL	Long term Dermal	1.8 mg/kg	Workers	Systemic
0.11	advisor at the Law attractor Late	DAIEL		bw/day	0	0
2-H	droxyethyl methacrylate	DNEL	Long term Oral	0.83 mg/	General	Systemic
		B. 151		kg bw/day	population	
		DNEL	Long term Dermal	0.83 mg/	General	Systemic
				kg bw/day	population	
		DNEL	Long term Dermal	1.3 mg/kg	Workers	Systemic
				bw/day		
		DNEL	Long term	2.9 mg/m ³	General	Systemic
			Inhalation		population	
		DNEL	Long term	4.9 mg/m ³	Workers	Systemic
			Inhalation			
mes	itylene	DNEL	Long term Oral	15 mg/kg	General	Systemic
				bw/day	population	
		DNEL	Short term	29.4 mg/m ³	General	Local
			Inhalation		population	
		DNEL	Long term	29.4 mg/m ³	General	Local
			Inhalation		population	
		DNEL	Short term	29.4 mg/m ³	General	Systemic
			Inhalation	Ü	population	
		DNEL	Long term	29.4 mg/m ³		Systemic
			Inhalation	Ü	population	
		DNEL	Short term	100 mg/m ³	Workers	Local
			Inhalation	3 .		
		DNEL	Long term	100 mg/m ³	Workers	Local
			Inhalation	3,111		
		DNEL	Short term	100 mg/m ³	Workers	Systemic
			Inhalation		· = : : : = : =	,
		DNEL	Long term	100 mg/m ³	Workers	Systemic
		- · · 	Inhalation			,
		DNEL	Long term Dermal	9512 mg/	General	Systemic
				kg bw/day	population	- ,
		DNEL	Long term Dermal	16171 mg/	Workers	Systemic
		J. 1LL		kg bw/day		- , 5.5.1.110
n-hı	ıtyl acrylate	DNEL	Long term	11 mg/m ³	Workers	Local
11-00	ity, doi yidio	DIVLL	Inhalation	7 1 1119/111	TYORKOIS	20001
carb	on black	DNEL	Long term	0.06 mg/m ³	General	Systemic
Carb	on plack	DINEL	Inhalation	0.00 mg/m	population	Оузіснію
		DNEL	Long term	1 mg/m³	Workers	Systemic
		DINEL	Inhalation	1 1119/111	VVOINGIS	Оузіснію
Ola:	e acid, compound	DNE		5 ualka bud	Coporal	Systemis
Olei	c acid, compound	DNEL	Long term Oral	5 µg/kg bw/		Systemic
		חאבי	Long torm Dames	day	population	Systemis
		DNEL	Long term Dermal	5 µg/kg bw/		Systemic
		ראבי	Lamanta Directi	day	population	Cymtau-!-
		DNEL	Long term Dermal	14 µg/kg	Workers	Systemic
				bw/day		
		2 2 2 2 2	<u> </u>			<u> </u>

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<u> </u>		<u> </u>			
	DNEL	Long term	17.4 µg/m³		Systemic
		Inhalation		population	
	DNEL	Long term Inhalation	98.4 μg/m³	Workers	Systemic
talc (non-asbestos form)	DNEL	Short term Inhalation	1.08 mg/m ³	General population	Systemic
	DNEL	Long term	1.08 mg/m³	General	Systemic
	DNEL	Inhalation Short term	1.8 mg/m³	population General	Local
		Inhalation		population	
	DNEL	Long term Inhalation	1.8 mg/m ³	General population	Local
	DNEL	Short term	2.16 mg/m ³		Systemic
	DNEL	Inhalation Long term	2.16 mg/m³	Workers	Systemic
	DNEL	Inhalation Long term Dermal	2.27 mg/	General	Local
			cm ²	population	
	DNEL	Short term Inhalation	3.6 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	3.6 mg/m ³	Workers	Local
	DNEL	Long term Dermal	4.54 mg/ cm ²	Workers	Local
	DNEL	Long term Dermal	21.6 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 43.2 mg/ kg bw/day	population Workers	Systemic
	DNEL	Short term Oral	160 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	160 mg/kg bw/day	General population	Systemic
phosphoric acid	DNEL	Long term Oral	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term	0.36 mg/m ³	General	Local
	DNEL	Inhalation Long term	4.57 mg/m³		Systemic
	DNEL	Inhalation Long term	10.7 mg/m³	population Workers	Systemic
	DNEL	Inhalation Long term	1 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term Inhalation	2 mg/m³	Workers	Local
Toluene	DNEL	Long term Inhalation	384 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	8.13 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	56.5 mg/m ³		Local
	DNEL	Long term Inhalation	56.5 mg/m³		Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	226 mg/m ³	General population	Local
	DNEL	Short term	226 mg/m³	General	Systemic
	חאבי	Inhalation	201	population	Systemis
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
		I			

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DEOTION O. Exposure com	O.O. P	ordoniai proto			
	DNEL	Short term	384 mg/m ³	Workers	Local
		Inhalation	_		
	DNEL	Short term	384 mg/m ³	Workers	Systemic
		Inhalation	Ŭ		
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg	General	Systemic
			bw/day	population	-,
	DNEL	Long term	43.9 mg/m ³	General	Systemic
		Inhalation	10.0 1119/111	population	Cycloniio
	DNEL	Long term Dermal	78 mg/kg	General	Systemic
	DIVLL	Long term berman	bw/day	population	Cysternic
	DNEL	Long term Dermal	183 mg/kg	Workers	Systemic
	DINEL	Long term Demia		WOIKEIS	Systemic
	DNIEL	Lama tama	bw/day	\\/ a w s a wa	Customia
	DNEL	Long term	369 mg/m ³	Workers	Systemic
		Inhalation	550 5 ············	\\/	1 1
	DNEL	Short term	553.5 mg/	Workers	Local
	5	Inhalation	m³		
	DNEL	Short term	553.5 mg/	Workers	Systemic
		Inhalation	m³		
maleic anhydride	DNEL	Long term	0.081 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Long term	0.081 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Short term	0.2 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	0.2 mg/m ³	Workers	Systemic
		Inhalation			·
	DNEL	Long term	0.05 mg/m ³	General	Systemic
		Inhalation	J	population	
	DNEL	Long term Oral	0.06 mg/	General	Systemic
	_	J - 1	kg bw/day	population	
	DNEL	Long term	0.08 mg/m ³	General	Local
		Inhalation	- 120g, 111	population	
	DNEL	Short term Oral	0.1 mg/kg	General	Systemic
	5112	Chart tonin Ordi	bw/day	population	C y C C C C C C C C C C C C C C C C C C
	DNEL	Short term Dermal	0.1 mg/kg	General	Systemic
	DIVLE	Chort term Dermai	bw/day	population	Cystellic
	DNEL	Long term Dermal	0.1 mg/kg	General	Systemic
	DINEL	Long term Dermal			Systemic
	DNE	Chart tarm Darres	bw/day	population	Cyatamia
	DNEL	Short term Dermal	0.2 mg/kg	Workers	Systemic
	DAIL:	 	bw/day	147	0
	DNEL	Long term Dermal	0.2 mg/kg	Workers	Systemic
			bw/day		

PNECs

Product/ingredient	t name Compartment Deta	ail Value	Method Detail
n-butyl acetate	Fresh water	0.18 mg/l	-
•	Marine	0.018 mg/l	-
	Sewage Treatment	35.6 mg/l	-
	Plant		
	Fresh water sedimen	3. 3	-
	Marine water sedime	ent 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 Plant	6.58 mg/l	-
	Fresh water sedimen	nt 12.46 mg/kg dwt	-
	Marine water sedime		-
	Soil	2.31 mg/kg dwt	_
ethylbenzene	Fresh water	0.1 mg/l	_
,	Marine	0.01 mg/l	_
	Sewage Treatment Plant	9.6 mg/l	-

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<u> </u>	<u> </u>		
	Fresh water sediment	13.7 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
	Secondary Poisoning	20 mg/kg	-
2-methylpropan-1-ol	Fresh water	0.4 mg/l	-
	Marine	0.04 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	1.52 mg/kg dwt	-
	Marine water sediment	0.152 mg/kg dwt	-
	Soil	0.0699 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	-
Toluene	Fresh water	0.68 mg/l	-
	Marine	0.68 mg/l	-
	Sewage Treatment Plant	13.61 mg/l	-
	Fresh water sediment	16.39 mg/kg dwt	-
	Marine water sediment	16.39 mg/kg dwt	-
	Soil	2.89 mg/kg dwt	-
1-methoxy-2-propanol	Fresh water	10 mg/l	-
	Marine	1 mg/l	-
	Sewage Treatment Plant	100 mg/l	-
	Fresh water sediment	52.3 mg/kg dwt	-
	Marine water sediment	5.2 mg/kg dwt	-
1	Soil	5.49 mg/kg dwt	-

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection 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 ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

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

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

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

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

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

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

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

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occurred.

Gloves

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

Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), butyl rubber (> 0.4 mm), Viton® (> $0.7 \, \text{mm}$

Recommended, gloves(breakthrough time) > 8 hours: 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), nitrile rubber (> 0.4 mm), polyvinyl alcohol (PVA) (> 0.3 mm)

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

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

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

Environmental exposure controls

: Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. Colour Aluminium Odour : Characteristic. **Odour threshold** : 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:

137.64°C (279.8°F)

Flammability Upper/lower flammability or

explosive limits

: 0.8 - 9.8%

: Not applicable.

Flash point : Closed cup: 30°C (86°F)

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

aromatics).

Decomposition temperature : Not available. pН : Not applicable.

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

Partition coefficient: n-octanol/ : Not available.

water

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

Weighted average: 1.11 kPa (8.33 mm Hg) (at 20°C)

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Highest known value: 1 (n-butyl acetate) Weighted average: 0.88compared with **Evaporation rate**

butyl acetate

Density 1.156 to 1.398 g/cm³

Vapour density Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.87

(Air = 1)

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

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

Stable under recommended storage and handling conditions (see Section 7). 10.2 Chemical stability

: Under normal conditions of storage and use, hazardous reactions will not occur. 10.3 Possibility of hazardous reactions

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.

Decomposition products may include the following materials: carbon monoxide, 10.6 Hazardous carbon dioxide, smoke, oxides of nitrogen. decomposition products

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 n-butyl methacrylate, 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-hydroxyethyl methacrylate. 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	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
•	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

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SECTION 11: Toxicological information

2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	19200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 mg/kg	-
n-butyl methacrylate	LD50 Oral	Rat	16 g/kg	-
2-hydroxyethyl methacrylate	LD50 Oral	Rat	5050 mg/kg	-
mesitylene	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
carbon black	LD50 Oral	Rat	>15400 mg/kg	-
phosphoric acid	LD50 Oral	Rat	1.25 g/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
maleic anhydride	LD50 Oral	Rat	400 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Hardtop XP Alu Comp A (MM-WCS)	N/A	13130.7	N/A	181.3	N/A
n-butyl acetate	13100	N/A	N/A	N/A	N/A
xylene	4300	1100	N/A	20	N/A
ethylbenzene	3500	N/A	N/A	17.8	N/A
2-methylpropan-1-ol	2460	3400	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
n-butyl methacrylate	16000	N/A	N/A	N/A	N/A
2-hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A
mesitylene	5000	N/A	N/A	24	N/A
n-butyl acrylate	N/A	N/A	N/A	11	N/A
toluene	N/A	N/A	N/A	49	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A
maleic anhydride	400	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours	-
2-methylpropan-1-ol	Eyes - Irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-
Hexanoic acid, 2-ethyl-, zinc salt, basic	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
n-butyl methacrylate	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Rabbit	-	500 microliters	-
2-hydroxyethyl methacrylate	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-

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	_				
mesitylene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
n-butyl acrylate	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
phosphoric acid	Eyes - Irritant	Mammal -	-	-	-
		species			
		unspecified			
	Skin - Severe irritant	Mammal -	-	-	-
		species			
		unspecified			
toluene	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	-			mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 Percent	-
•					

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
n-butyl methacrylate	skin	Mammal - species unspecified	Sensitising
2-hydroxyethyl methacrylate	skin	Mammal - species unspecified	Sensitising
n-butyl acrylate	skin	Mammal - species unspecified	Sensitising
maleic anhydride	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.

Teratogenicity

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	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
n-butyl methacrylate	Category 3	-	Respiratory tract irritation
mesitylene	Category 3	-	Respiratory tract irritation
n-butyl acrylate	Category 3	-	Respiratory tract irritation
toluene	Category 3	-	Narcotic effects

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1-methoxy-2-propanol Category 3 - Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
Oleic acid, compound	Category 2	-	-
toluene	Category 2	-	-
maleic anhydride	Category 1	inhalation	respiratory system

Aspiration hazard

Product/ingredient name	Result
xylene ethylbenzene hydrocarbons, C9, aromatics hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics mesitylene toluene	ASPIRATION HAZARD - Category 1

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data. **Inhalation** : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

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
xylene	Acute LC50 8500 μg/l Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
aluminium powder (stabilised)	Acute LC50 38000 μg/l	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 1130 μg/l Fresh water	Fish - Loach Family - Cobitidae - Fry	96 hours
	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Coontail - Ceratophyllum demersum	3 days
ethylbenzene	Acute EC50 7700 μg/l Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	Acute EC50 2.93 mg/l	Daphnia	48 hours

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96 hours 48 hours 72 hours 96 hours 48 hours 48 hours
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21 days
96 hours
48 hours
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96 hours
96 hours
1

Conclusion/Summary

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

12.2 Persistence and degradability

Conclusion/Summary: Not available.

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
xylene	3.12	8.1 to 25.9	low
ethylbenzene	3.6	-	low
hydrocarbons, C9, aromatics	-	10 to 2500	high
hydrocarbons, C10-C13, n-	-	10 to 2500	high
alkanes, isoalkanes, cyclics,			
< 2% aromatics			
2-methylpropan-1-ol	1	-	low
2-methoxy-1-methylethyl	1.2	-	low
acetate			
Hexanoic acid, 2-ethyl-, zinc	-	60960	high
salt, basic			
n-butyl methacrylate	2.99	-	low
2-hydroxyethyl methacrylate	0.42	-	low
mesitylene	3.42	161	low
n-butyl acrylate	2.38	17.27	low
toluene	2.73	90	low

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Hardtop XP Alu Comp A			
SECTION 12: Ecolo	gical inform	ation	
1-methoxy-2-propanol maleic anhydride	<1 -2.78	- -	low low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

: Yes.

Waste catalogue

Waste code	Waste designation
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging		Waste catalogue
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

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

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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 : Hazard identification number 30

Tunnel code (D/E)

ADR/RID: Viscous substance. Not restricted, ref. chapter 2.2.3.1.5 (applicable to

receptacles < 450 litre capacity).

ADN : The product is only regulated as an environmentally hazardous substance when

transported in tank vessels.

IMDG : **Emergency schedules** F-E, S-E

IMDG: Viscous substance. Transport in accordance with paragraph 2.3.2.5

(applicable to receptacles < 450 litre capacity).

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 available.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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SECTION 15: Regulatory information

Annex XVII - Restrictions : Not applicable.

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

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P₅c

EU regulations

Industrial emissions : Listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

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SECTION 16: Other information

Classification	Justification
Skin Sens. 1, H317	On basis of test data Calculation method Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

Full text of classifications

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
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Flam. Sol. 1	FLAMMABLE SOLIDS - Category 1
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Water-react. 2	SUBSTANCES AND MIXTURES WHICH IN CONTACT WITH WATER EMIT FLAMMABLE
	GASES - Category 2

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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.

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