SAFETY DATA SHEET



Hardtop XPF Alu Comp A

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

1.1 Product identifier

Product name : Hardtop XPF Alu Comp A

Product code : 36402
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

Classification according to UK CLP/GHS

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 :





Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 1/19

SECTION 2: Hazards identification

Signal word : Warning.

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

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.

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

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.

: 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

| Product/ingredient name | Identifiers | % | Classification | Type |
|-----------------------------|--|-----------|---|---------|
| r-butyl acetate | REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 | ≥10 - ≤16 | 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] |
| hydrocarbons, C9, aromatics | REACH #: 01-2119455851-35 | ≤3.1 | Flam. Liq. 3, H226 STOT SE 3, H335 | [1] |

Date of issue/Date of revision : 05.04.2024 : 21.04.2023 2/19 Date of previous issue Version : 1.04

SECTION 3: Composition/information on ingredients

| | EC: 918-688-5 | | STOT SE 3, H336 | |
|---|---|------|--|---------|
| | CAS: 64742-95-6 | | Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 | |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≤3 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | [1] [2] |
| hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, < 2% aromatics | REACH #: 01-2119457273-39 EC: 265-150-3 CAS: - | ≤3 | Asp. Tox. 1, H304 EUH066 | [1] |
| 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] [*] |
| n-butyl methacrylate | REACH #: 01-2119486394-28 EC: 202-615-1 CAS: 97-88-1 Index: 607-033-00-5 | <1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 | [1] |
| Hexanoic acid, 2-ethyl-, zinc salt, basic | REACH #: 01-2119979093-30 EC: 286-272-3 CAS: 85203-81-2 Index: 607-230-00-6 | <0.3 | Eye Irrit. 2, H319 Repr. 1B, H360D Aquatic Chronic 3, H412 | [1] |
| Neodecanoic acid, zinc salt, basic | REACH #: 01-2120770060-67 EC: 282-780-4 CAS: 84418-68-8 | ≤0.3 | Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 | [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-4-piperidinyl) decanedioate | CAS: 1065336-91-5 | ≤0.3 | Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) | [1] |
| | | | See Section 16 for the full text of the H statements declared above. | |

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

Type

- [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.

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 3/19

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. 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

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 4/19

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.

Date of issue/Date of revision : 05.04.2024 : 21.04.2023 Version : 1.04 5/19 Date of previous issue

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

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 6/19

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). [xylene, o-,m-, |
| | p- or mixed isomers] 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. |
| ethylbenzene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed |
| | through skin. |
| | STEL: 552 mg/m³ 15 minutes. |
| | STEL: 125 ppm 15 minutes. |
| | TWA: 100 ppm 8 hours. |
| | TWA: 441 mg/m³ 8 hours. |

Biological exposure indices

| Product/ingredient name | Exposure indices |
|-------------------------|--|
| x ylene | EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, |
| | m-, p- or mixed isomers] |
| | BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. |
| | Sampling time: post shift. |

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 |
|-------------------------|------|--------------------------|-----------------------|--------------------------------|----------|
| p-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 | | Systemic |
| | DNEL | Long term Inhalation | 102.34 mg/ m³ | | Local |
| | DNEL | Long term Oral | 2 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 2 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 3.4 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 6 mg/kg | General | Systemic |

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 7/19

SECTION 8: Exposure controls/personal protection

| DNEL Dong term Dermal bw/day / mg/kg workers Systemic bw/day 11 mg/kg workers Systemic bw/day 12 mg/m² General population General population General population Short term inhalation DNEL Dries bereath and the population of the population | | | <u> </u> | | | |
|--|-----------------------------|------|-------------------|------------------------|---------------------------|----------|
| DNEL Cong term Inhalation DNEL Cong term Inhalatio | | DNEL | Long term Dermal | | population Workers | Systemic |
| DNEL Long term 12 mg/m² General Systemic DNEL Long term Inhalation DNEL Lo | | DNEL | Short term Dermal | 11 mg/kg | Workers | Systemic |
| DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Dermal DNEL Long term Dermal Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal Long term Inhalation DNEL Long term Dermal DNEL Long term DNEL Long term DNEL Long term Inhalation DNEL Long term DNEL DNEL DNEL DNEL DNE TNET DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | | DNEL | | | | Systemic |
| DNEL Long term Local melation DNEL Short term | | DNEL | Long term | 35.7 mg/m³ | General | Local |
| DNEL Short term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Under Inhalation DNEL Short term Inhalation DNEL Long term Under Inhalation DNEL Long term U | | DNEL | Long term | 48 mg/m³ | | Systemic |
| DNEL Short term Inhalation DNEL Long term DNEL Long term Inhalation DNEL Long term DNEL Long term Inhalation DNEL Long term Enhalation DNEL Long term Enhalation DNEL Long term Enhalation Enhala | | DNEL | Short term | 300 mg/m ³ | | Local |
| Inhalation DNEL Short term Inhalation DNEL Cong term Oral DNEL Long term Dermal DNEL Short term Inhalation DNEL Short term Dermal DNEL Short ter | | DNEL | | 300 mg/m ³ | General | Systemic |
| Inhalation DNEL DNEL DNEL Long term Inhalation DNEL Long term DNEL DNEL DNEL Long term DNEL Long term DNEL DNEL Long term DNEL DNEL Long term DNEL DNEL Long term D | | | Inhalation | _ | | |
| Inhalation Long term Oral Long term Grainhalation DNEL Long term Dermal Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Long term Dermal Inhalation DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Sh | | | Inhalation | _ | | |
| DNEL long term inhalation DNEL long term Dermal DNEL long term Dermal DNEL long term Dermal DNEL long term Dermal Inhalation DNEL long term Dermal Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Short term Inhalation DNEL DNEL Long term Dermal Inhalation DNEL DNEL Dng term Dermal Inhalation DNEL Short term Inhalation DNEL Dng term Dermal Inhalation DNEL Dng term Dermal Inhalation DNEL Dng term Dermal DNEL Dng term DNEL Dng term Dngulation DNEL Dng term Dngulation DNEL Dng term DNEL Dng term Dngulation DNEL Dng term Dngulation DNEL Dng term DNEL Dng term Dngulation DNEL Dng term Dngulation DNEL Dng term DNEL Dng term Dngulation Dngulation DNEL Dng term Dngulation D | | | Inhalation | _ | | |
| Inhalation DNEL Long term Dermal DNEL DNEL DNEL DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term 221 mg/m³ Inhalation DNEL Short term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | xylene | | | bw/day | population | |
| Inhalation DNEL DNEL DNEL Long term Dermal DNEL Long term DNEL Long term DNEL Long term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | | | Inhalation | - | population | |
| DNEL Long term Dermal bw/day 212 mg/m3 Workers Systemic Workers Demail DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Oral DNEL Long term Inhalation Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation Long term Inhalation DNEL Long term Inhalation Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation Long term Inhalation Long term Inhalation Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation Long term Inhalation Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation Long term Inhalation Long term Inhalation DNEL Cocal DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | | | Inhalation | _ | population | |
| DNEL Inhalation DNEL Coral Inhalation DNEL Coral Inhalation DNEL Short term Inhalation DNEL Long term Dermal DNEL Long term Dermal Inhalation DNEL Long term DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | | | | bw/day 212 mg/kg | population | |
| DNEL long term Inhalation DNEL Short term 260 mg/m³ Inhalation DNEL Short term 260 mg/m³ General population Systemic population DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Dermal DNEL Long term DPMC DNEL Long term DPMC DNEL Long term DNEL Long term DPMC DPMC DPMC DPMC DPMC DPMC DPMC DPMC | | DNEL | | | Workers | Local |
| DNEL Short term Inhalation DNEL Long term Dermal DNEL Long term DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | | DNEL | Long term | 221 mg/m³ | Workers | Systemic |
| DNEL Short term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | | DNEL | Short term | 260 mg/m ³ | | Local |
| hydrocarbons, C9, aromatics DNEL DNEL Long term Dermal Long term Dermal Inhalation DNEL Long term Dermal DNEL Long term DNEL DNEL DNEL DNET DNEL DNEL DNET DNEL DNEL DNEL DNET DNEL DNEL DNET DNEL DNEL DNEL DNEL DNEL DNET DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | | DNEL | | 260 mg/m ³ | General | Systemic |
| hydrocarbons, C9, aromatics DNEL Long term Dermal Long term Dermal Inhalation DNEL Long term Dermal Inhalation DNEL Long term Dermal Inhalation DNEL Long term Dermal Inhalation Inhalation DNEL Long term Oral T.5 mg/kg bw/day DNEL Long term Oral Inhalation Inhalation DNEL Long term Inhalation DNEL Short term Short term Short term Systemic Workers Systemic Population General DNEL Local Short term Short term G40 mg/m³ General DNEL Local Systemic Population General Local Population General Local Systemic Population General Local Population General Population General Local Population General Local Population General Local Population General Population General Population General Population General Popula | | | Inhalation | _ | | |
| DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Oral DNEL Long term Ora | | | Inhalation | _ | | |
| DNEL Long term Double Double Long term Long term Double Long term Long term Long term Double Long term | hydrocarbons, C9, aromatics | | · · | kg bw/day | | |
| DNEL Long term Inhalation DNEL Long term Oral 7.5 mg/kg bw/day DNEL Long term Oral 7.5 mg/kg population [Consumers] DNEL Long term Oral 7.5 mg/kg population [Consumers] DNEL Long term 0.41 mg/m³ General population [Consumers] DNEL Long term 1.9 mg/m³ Workers DNEL Long term 1.9 mg/m³ Workers DNEL Long term 178.57 mg/ Inhalation m³ General population DNEL Short term 640 mg/m³ General Local | | | Inhalation | _ | | |
| Inhalation DNEL Long term Oral DNEL Long term Inhalation DNEL Short term DNEL Short term DNEL Short term DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term DNEL Short term DNEL Short term DNEL Long term Inhalation Inh | | | · · | bw/day | population [Consumers] | |
| DNEL Long term Oral 7.5 mg/kg General population [Consumers] DNEL Long term 0.41 mg/m³ General population Inhalation DNEL Long term 1.9 mg/m³ Workers Systemic Inhalation DNEL Long term 178.57 mg/ General population DNEL Long term 178.57 mg/ General Local Inhalation DNEL Short term 640 mg/m³ General Local | | DNEL | | 32 mg/m³ | population | Systemic |
| DNEL Long term 0.41 mg/m³ General population DNEL Long term 1.9 mg/m³ Workers Systemic DNEL Long term 178.57 mg/ General population DNEL Long term 178.57 mg/ population DNEL Short term 640 mg/m³ General Local | | DNEL | Long term Oral | | General population | Systemic |
| DNEL Long term 1.9 mg/m³ Workers Systemic DNEL Long term | | DNEL | | 0.41 mg/m ³ | General | Systemic |
| DNEL Long term 178.57 mg/ General Local population DNEL Short term 640 mg/m³ General Local | | DNEL | Long term | 1.9 mg/m³ | | Systemic |
| DNEL Short term 640 mg/m³ General Local | | DNEL | Long term | m³ | | Local |
| | | DNEL | | 640 mg/m ³ | | Local |

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 8/19

SECTION 8: Exposure controls/personal protection

| COTION 6. Exposure cont | . O.3/P | crocial prote | | | |
|--|---------|------------------------------|-------------------------------|-----------------------|--------------|
| | DNEL | Long term | 837.5 mg/ | Workers | Local |
| | DNEL | Inhalation Short term | m³ 1066.67 | Workers | Local |
| | | Inhalation | mg/m³ | | |
| | DNEL | Short term | 1152 mg/ | General | Systemic |
| | | Inhalation | m³ | population | _ |
| | DNEL | Short term | 1286.4 mg/ | Workers | Systemic |
| | | Inhalation | m³ | | |
| ethylbenzene | DMEL | Long term | 442 mg/m³ | Workers | Local |
| | D145 | Inhalation | 004 / 0 | VA /l | 0 |
| | DMEL | Short term | 884 mg/m ³ | Workers | Systemic |
| | DNEL | Inhalation Long term Oral | 1.6 mg/kg | General | Systemic |
| | DINEL | Long term Oral | bw/day | population | Systemic |
| | DNEL | Long term | 15 mg/m ³ | General | Systemic |
| | 5.422 | Inhalation | . 5g/ | population | |
| | DNEL | Long term | 77 mg/m³ | Workers | Systemic |
| | | Inhalation | | | , |
| | DNEL | Long term Dermal | 180 mg/kg | Workers | Systemic |
| | | - | bw/day | | |
| | DNEL | Short term | 293 mg/m ³ | Workers | Local |
| Charles Hard | D | Inhalation | 00 . / 3 | 0 | 1 1 |
| titanium dioxide | DNEL | Long term | 28 µg/m³ | General | Local |
| | DNEL | Inhalation | 170 | population Workers | Local |
| | DINEL | Long term Inhalation | 170 μg/m³ | VVOIKEIS | Local |
| n-butyl methacrylate | DNEL | Long term Dermal | 3 mg/kg | General | Systemic |
| and the state of t | , | | bw/day | population | - , |
| | DNEL | Long term Dermal | 5 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Long term | 66.5 mg/m ³ | General | Systemic |
| | D | Inhalation | 000 4 | population | 1 1 |
| | DNEL | Long term | 366.4 mg/ | General | Local |
| | חאבי | Inhalation | m ³ | population Workers | Local |
| | DNEL | Long term Inhalation | 409 mg/m ³ | VVOIKEIS | Local |
| | DNEL | Long term | 415.9 mg/ | Workers | Systemic |
| | , | Inhalation | m ³ | | - , |
| Hexanoic acid, 2-ethyl-, zinc salt, | DNEL | Long term Oral | 3.21 mg/ | General | Systemic |
| basic | | | kg bw/day | population | |
| | DNEL | Long term Dermal | 3.21 mg/ | General | Systemic |
| | | | kg bw/day | population | |
| | DNEL | Long term Dermal | 6.41 mg/ | Workers | Systemic |
| | DNEL | Long term | kg bw/day 10.42 mg/ | General | Systemic |
| | DINCL | Long term Inhalation | 10.42 111g/ m ³ | population | Systemic |
| | DNEL | Long term | 20.83 mg/ | Workers | Systemic |
| | J. 1LL | Inhalation | m ³ | | - , 5.5.1110 |
| decanedioic acid, 1,10-bis | DNEL | Long term Oral | 0.18 mg/ | General | Systemic |
| (1,2,2,6,6-pentamethyl-4-piperidinyl) | | | kg bw/day | population | - |
| ester, mixt. with 1-methyl 10- | | | | | |
| (1,2,2,6,6-pentamethyl-4-piperidinyl) | | | | | |
| decanedioate | ראבי | Law w tawes | 0.04 / 3 | Camaral | Cychamic |
| | DNEL | Long term Inhalation | 0.31 mg/m ³ | | Systemic |
| | DNEL | Long term Dermal | 0.9 mg/kg | population General | Systemic |
| | DIVLL | Long tolli Dellilal | bw/day | population | Systemio |
| | DNEL | Long term | 1.27 mg/m ³ | Workers | Systemic |
| | | Inhalation | J | | , |
| | DNEL | Long term Dermal | 1.8 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | | | | | |

PNECs

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 9/19

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|--------------------------------|-----------------------|------------------|---------------|
| <mark>p∕-</mark> butyl acetate | Fresh water | 0.18 mg/l | - |
| | Marine | 0.018 mg/l | - |
| | Sewage Treatment | 35.6 mg/l | - |
| | Plant | | |
| | | 0.981 mg/kg dwt | - |
| | Marine water sediment | 0.0981 mg/kg dwt | - |
| | Soil | 0.0903 mg/kg dwt | - |
| xylene | Fresh water | 0.327 mg/l | - |
| | Marine | 0.327 mg/l | - |
| | Sewage Treatment | 6.58 mg/l | - |
| | Plant | | |
| | Fresh water sediment | 12.46 mg/kg dwt | - |
| | Marine water sediment | 12.46 mg/kg dwt | - |
| | Soil | 2.31 mg/kg dwt | - |
| ethylbenzene | Fresh water | 0.1 mg/l | - |
| | Marine | 0.01 mg/l | - |
| | Sewage Treatment | 9.6 mg/l | - |
| | Plant | | |
| | Fresh water sediment | 13.7 mg/kg dwt | - |
| | Soil | 2.68 mg/kg dwt | - |
| | Secondary Poisoning | 20 mg/kg | - |

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 occurred.

Gloves

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 10/19

SECTION 8: Exposure controls/personal protection

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: 4H/Silver Shield® (> 0.07 mm), butyl rubber (> 0.4 mm),

neoprene (> 0.35 mm), Viton® (> 0.7 mm)

Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), nitrile rubber (> 0.75 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

: Do not allow to enter drains or watercourses.

controls

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:

138.51°C (281.3°F)

Flammability Upper/lower flammability or

explosive limits

: 0.8 - 9.8%

: Not applicable.

: Closed cup: 30°C (86°F) Flash point

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

aromatics). Not available.

Decomposition temperature

pН : Not applicable.

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

Solubility(ies)

| Media | Result |
|------------|-------------|
| cold water | Not soluble |
| hot water | Not soluble |

Partition coefficient: n-octanol/ : Not available.

water

Date of issue/Date of revision : 05.04.2024 : 21.04.2023 Version : 1.04 11/19 Date of previous issue

SECTION 9: Physical and chemical properties

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

Weighted average: 1.12 kPa (8.4 mm Hg) (at 20°C)

Evaporation rate Highest known value: 1 (n-butyl acetate) Weighted average: 0.9compared with

butyl acetate

: 1.156 g/cm³ **Density**

Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.9 (Air Vapour density

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

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

10.3 Possibility of

hazardous reactions

No additional information.

SECTION 10: Stability and reactivity

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

: 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.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

Keep away from the following materials to prevent strong exothermic reactions:

10.5 Incompatible materials 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, fatique, 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. May produce an allergic reaction.

Acute toxicity

Date of issue/Date of revision : 05.04.2024 : 21.04.2023 Version : 1.04 12/19 Date of previous issue

SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------------|------------------------|------------|--------------|----------|
| <mark>ଜ-</mark> 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 | 11 mg/l | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | TDLo Dermal | Rabbit | 4300 mg/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat - Male | 11 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| n-butyl methacrylate | LD50 Oral | Rat | 16 g/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) |
|-------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| Fardtop XPF Alu Comp A | N/A | 19130.9 | N/A | 143.5 | N/A |
| n-butyl acetate | 13100 | N/A | N/A | N/A | N/A |
| xylene | 4300 | 1100 | N/A | 11 | N/A |
| ethylbenzene | 3500 | N/A | N/A | 11 | N/A |
| n-butyl methacrylate | 16000 | 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 | - |
| n-butyl methacrylate | Eyes - Mild irritant | Mammal - species unspecified | - | - | - |
| | Skin - Mild irritant | Rabbit | - | 500 microliters | - |
| 2-ethylhexanoic acid and its salts | Eyes - Mild irritant | Mammal - species unspecified | - | - | - |

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|-------------------------|-------------------|------------------------------|-------------|
| n-butyl 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.

Teratogenicity

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 13/19

SECTION 11: Toxicological information

| 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 |
| n-butyl methacrylate | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | - | hearing organs |

Aspiration hazard

| Product/ingredient name | Result |
|---|---|
| xylene hydrocarbons, C9, aromatics ethylbenzene hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 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 |
|-----------------------------|-----------------------------------|---|----------|
| x ylene | 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 |
| 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 |
| ethylbenzene | Acute EC50 7700 μg/l Marine water | Algae - Diatom - Skeletonema | 96 hours |

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 14/19

SECTION 12: Ecological information

| | | costatum | |
|------------------------------------|-----------------------------------|--------------------------------|----------|
| | Aguta FCEO 2 02 mg/l | | 10 hours |
| | Acute EC50 2.93 mg/l | Daphnia | 48 hours |
| | Acute LC50 4.2 mg/l | Fish | 96 hours |
| titanium dioxide | Acute LC50 3 mg/l Fresh water | Crustaceans - Water flea - | 48 hours |
| | | Ceriodaphnia dubia - Neonate | |
| | Acute LC50 6.5 mg/l Fresh water | Daphnia - Water flea - Daphnia | 48 hours |
| | Ĭ | pulex - Neonate | |
| | Acute LC50 >1000000 µg/l Marine | Fish - Mummichog - Fundulus | 96 hours |
| | water | heteroclitus | |
| n-butyl methacrylate | Chronic NOEC 2.6 mg/l Fresh water | Daphnia - Water flea - Daphnia | 21 days |
| | | magna - Neonate | |
| 2-ethylhexanoic acid and its salts | Acute LC50 12.8 mg/l | Fish | 96 hours |
| 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 | | | |
| Piponaniyi) doddioddd | Acute LC50 0.9 mg/l | Fish | 96 hours |
| | | | |
| | Chronic NOEC 1 mg/l | Daphnia | 21 days |

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 |
|-----------------------------|-------------------|------------|------------------|
| kylene | - | - | Readily |
| hydrocarbons, C9, aromatics | - | | Not readily |
| ethylbenzene | - | | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------------|--------------------|-------------|-----------|
| <mark>দ</mark> -butyl acetate | 2.3 | - | low |
| xylene | 3.12 | 8.1 to 25.9 | low |
| hydrocarbons, C9, aromatics | - | 10 to 2500 | high |
| ethylbenzene | 3.6 | - | low |
| hydrocarbons, C10-C13, n- | - | 10 to 2500 | high |
| alkanes, isoalkanes, cyclics, | | | |
| < 2% aromatics | | | |
| n-butyl methacrylate | 2.99 | - | low |
| 2-ethylhexanoic acid and its | - | 60960 | high |
| salts | | | |

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

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.

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 15/19

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

| | 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 goods of class 3, ref. 2.2.3.1.5 (only applicable to receptacles < 450 litre capacity).

ADN

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

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 16/19

SECTION 14: Transport information

IMDG

: Emergency schedules F-E, S-E

MDG: Viscous substance. Transport in accordance with 2.3.2.5 of the IMDG Code (only applicable to receptacles < 450 litre capacity).

14.6 Special precautions for

user

: 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 <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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.

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 17/19

SECTION 15: Regulatory information

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
PBN = PEACH Pogistration Number

RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

| Classification | Justification |
|---|--|
| Flam. Liq. 3, H226 Skin Sens. 1, H317 Aquatic Chronic 3, H412 | On basis of test data Calculation method Expert judgment |

Full text of abbreviated H statements

| ⊮ 225 | Highly flammable liquid and vapour. |
|--------------|--|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H360D | May damage the unborn child. |
| H361f | Suspected of damaging fertility. |
| 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. |

Full text of classifications

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 18/19

SECTION 16: Other information

Acute Tox. 4

Aquatic Acute 1

Aquatic Chronic 1

Aquatic Chronic 2

Aquatic Chronic 3

Acute Tox. 4

ACUTE TOXICITY - Category 4

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

ASPIRATION HAZARD - Category 1

Asp. Tox. 1 ASPIRATION HAZARD - Category 1 Carc. 2 CARCINOGENICITY - Category 2

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3
Repr. 1B REPRODUCTIVE TOXICITY - Category 1B
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

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of printing : 05.04.2024 Date of issue/ Date of : 05.04.2024

revision

Date of previous issue : 21.04.2023 Version : 1.04

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.

Date of issue/Date of revision : 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.04 19/19