

# SAFETY DATA SHEET



## Hardtop XP II Comp A

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

#### 1.1 Product identifier

**Product name** : Hardtop XP II Comp A  
**Product code** : 53542  
**Product description** : Paint.  
**Product type** : Liquid.  
**Other means of identification** : Not available.

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

Use in coatings - Industrial use

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

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P.O. Box 2021  
3202 Sandefjord Norway

Tel: + 47 33 45 70 00  
Fax: +47 33 45 72 42  
sdsjotun@jotun.no

#### National contact

Jotun Paints Europe (Ltd).  
Unit K7, Marina Commercial Park  
Centre Park Road  
Cork  
Ireland

Tel: +353 214 965955  
Fax: +353 214 965992

SDSJotun@jotun.com

#### 1.4 Emergency telephone number

The National Poisons Information Centre of Ireland: +353 1 809 2166 (8am-10pm, 7 days a week)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

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

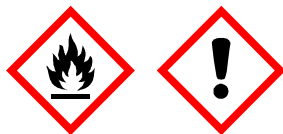
See Section 16 for the full text of the H statements declared above.

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

## SECTION 2: Hazards identification

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** :

Warning.

**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** :

P403 + P235 - Store in a well-ventilated place. Keep cool.

**Disposal** :

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** :

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

**Supplemental label elements** :

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**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   | Specific Conc. Limits, M-factors and ATEs   | Type    |
|---|--|-----------|--|---|---------|
| n-butyl acetate   | REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4                         | ≥10 - <20 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066  | -   | [1] [2] |
| xylene  | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | <10       | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | ATE [Dermal] = 1100 mg/kg<br>ATE [Inhalation (vapours)] = 11 mg/l                         | [1] [2] |
| ethylbenzene  | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4  | ≤3        | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373 (hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412   | ATE [Inhalation (vapours)] = 11 mg/l  | [1] [2] |
| pentane-2,4-dione   | REACH #:<br>01-2119458968-15<br>EC: 204-634-0<br>CAS: 123-54-6<br>Index: 606-029-00-0  | <1        | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331   | ATE [Oral] = 500 mg/kg<br>ATE [Dermal] = 300 mg/kg<br>ATE [Inhalation (vapours)] = 3 mg/l | [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 | REACH #:<br>01-2119491304-40<br>CAS: 1065336-91-5                                      | ≤0.3      | Skin Sens. 1A, H317<br>Repr. 2, H361f<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410  | M [Acute] = 1<br>M [Chronic] = 1  | [1]     |
| Neodecanoic acid, zinc salt, basic  | REACH #:<br>01-2120770060-67<br>EC: 282-780-4<br>CAS: 84418-68-8                       | ≤0.3      | Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411<br><br><b>See Section 16 for the full text of the H statements declared above.</b>  | M [Acute] = 1   | [1]     |

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

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. 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

#### 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

- 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, CO<sub>2</sub>, powders, water spray.
- Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
- Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

## SECTION 5: Firefighting measures

**Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

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

**6.2 Environmental precautions** : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**6.3 Methods and material for containment and cleaning up** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.  
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.  
Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.  
Keep away from heat, sparks and flame. No sparking tools should be used.  
Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.  
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.  
Put on appropriate personal protective equipment (see Section 8).  
Never use pressure to empty. Container is not a pressure vessel.  
Always keep in containers made from the same material as the original one.  
Comply with the health and safety at work laws.  
Do not allow to enter drains or watercourses.

#### Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

### 7.2 Conditions for safe storage, including any incompatibilities

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## SECTION 7: Handling and storage

Store in accordance with local regulations.

### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### Seveso Directive - Reporting thresholds

#### Danger criteria

| Category | 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 solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

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

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| n-butyl acetate         | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 966 mg/m <sup>3</sup> 15 minutes.<br>STEL: 200 ppm 15 minutes.<br>TWA: 724 mg/m <sup>3</sup> 8 hours.<br>TWA: 150 ppm 8 hours.   |
| xylene                  | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin.</b><br>STEL: 441 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 220 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours. |
| ethylbenzene            | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b><br>STEL: 552 mg/m <sup>3</sup> 15 minutes.<br>STEL: 125 ppm 15 minutes.<br>TWA: 100 ppm 8 hours.<br>TWA: 441 mg/m <sup>3</sup> 8 hours.                                    |

| Product/ingredient name | Exposure indices |
|-------------------------|------------------|
|                         |                  |

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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## SECTION 8: Exposure controls/personal protection

### DNELs/DMELs

| Product/ingredient name | Type                  | Exposure              | Value                    | Population                     | Effects  |
|-------------------------|-----------------------|-----------------------|--------------------------|--------------------------------|----------|
| n-butyl acetate         | DNEL                  | Short term Inhalation | 960 mg/m <sup>3</sup>    | Workers                        | Systemic |
|                         | DNEL                  | Short term Inhalation | 960 mg/m <sup>3</sup>    | Workers                        | Local    |
|                         | DNEL                  | Long term Inhalation  | 480 mg/m <sup>3</sup>    | Workers                        | Systemic |
|                         | DNEL                  | Long term Inhalation  | 480 mg/m <sup>3</sup>    | Workers                        | Local    |
|                         | DNEL                  | Short term Inhalation | 859.7 mg/m <sup>3</sup>  | General population [Consumers] | Systemic |
|                         | DNEL                  | Short term Inhalation | 859.7 mg/m <sup>3</sup>  | General population [Consumers] | Local    |
|                         | DNEL                  | Long term Inhalation  | 102.34 mg/m <sup>3</sup> | General population [Consumers] | Systemic |
|                         | DNEL                  | Long term Inhalation  | 102.34 mg/m <sup>3</sup> | General population [Consumers] | 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 bw/day           | General population             | Systemic |
|                         | DNEL                  | Long term Dermal      | 7 mg/kg bw/day           | Workers                        | Systemic |
|                         | DNEL                  | Short term Dermal     | 11 mg/kg bw/day          | Workers                        | Systemic |
|                         | DNEL                  | Long term Inhalation  | 12 mg/m <sup>3</sup>     | General population             | Systemic |
|                         | DNEL                  | Long term Inhalation  | 35.7 mg/m <sup>3</sup>   | General population             | Local    |
|                         | DNEL                  | Long term Inhalation  | 48 mg/m <sup>3</sup>     | Workers                        | Systemic |
|                         | DNEL                  | Short term Inhalation | 300 mg/m <sup>3</sup>    | General population             | Local    |
|                         | DNEL                  | Short term Inhalation | 300 mg/m <sup>3</sup>    | General population             | Systemic |
|                         | DNEL                  | Long term Inhalation  | 300 mg/m <sup>3</sup>    | Workers                        | Local    |
| DNEL                    | Short term Inhalation | 600 mg/m <sup>3</sup> | Workers                  | Local                          |          |
| DNEL                    | Short term Inhalation | 600 mg/m <sup>3</sup> | Workers                  | Systemic                       |          |
| xylene                  | DNEL                  | Long term Oral        | 5 mg/kg bw/day           | General population             | Systemic |
|                         | DNEL                  | Long term Inhalation  | 65.3 mg/m <sup>3</sup>   | General population             | Local    |
|                         | DNEL                  | Long term Inhalation  | 65.3 mg/m <sup>3</sup>   | General population             | Systemic |
|                         | DNEL                  | Long term Dermal      | 125 mg/kg bw/day         | General population             | Systemic |
|                         | DNEL                  | Long term Dermal      | 212 mg/kg bw/day         | Workers                        | Systemic |
|                         | DNEL                  | Long term Inhalation  | 221 mg/m <sup>3</sup>    | Workers                        | Local    |

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

|   |      |                       |                        |                    |          |
|---|------|-----------------------|------------------------|--------------------|----------|
| ethylbenzene  | DNEL | Long term Inhalation  | 221 mg/m <sup>3</sup>  | Workers            | Systemic |
|   | DNEL | Short term Inhalation | 260 mg/m <sup>3</sup>  | General population | Local    |
|   | DNEL | Short term Inhalation | 260 mg/m <sup>3</sup>  | General population | Systemic |
|   | DNEL | Short term Inhalation | 442 mg/m <sup>3</sup>  | Workers            | Local    |
|   | DNEL | Short term Inhalation | 442 mg/m <sup>3</sup>  | Workers            | Systemic |
|   | DMEL | Long term Inhalation  | 442 mg/m <sup>3</sup>  | Workers            | Local    |
|   | DMEL | Short term Inhalation | 884 mg/m <sup>3</sup>  | Workers            | Systemic |
|   | DNEL | Long term Oral        | 1.6 mg/kg bw/day       | General population | Systemic |
|   | DNEL | Long term Inhalation  | 15 mg/m <sup>3</sup>   | General population | Systemic |
|   | DNEL | Long term Inhalation  | 77 mg/m <sup>3</sup>   | Workers            | Systemic |
| pentane-2,4-dione   | DNEL | Long term Dermal      | 180 mg/kg bw/day       | Workers            | Systemic |
|   | DNEL | Short term Inhalation | 293 mg/m <sup>3</sup>  | Workers            | Local    |
|   | DNEL | Long term Oral        | 7 mg/kg bw/day         | General population | Systemic |
|   | DNEL | Long term Dermal      | 12 mg/kg bw/day        | Workers            | Systemic |
| 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 | DNEL | Long term Inhalation  | 84 mg/m <sup>3</sup>   | Workers            | Systemic |
|   | DNEL | Long term Oral        | 0.18 mg/kg bw/day      | General population | Systemic |
|   | DNEL | Long term Inhalation  | 0.31 mg/m <sup>3</sup> | General population | Systemic |
|   | DNEL | Long term Dermal      | 0.9 mg/kg bw/day       | General population | Systemic |
|   | DNEL | Long term Inhalation  | 1.27 mg/m <sup>3</sup> | Workers            | Systemic |
|   | DNEL | Long term Dermal      | 1.8 mg/kg bw/day       | Workers            | Systemic |

**PNECs**

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



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|  |                        |                |   |
|--|------------------------|----------------|---|
|  | Sewage Treatment Plant | 9.6 mg/l       | - |
|  | 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** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying to 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

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

Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: 4H/Silver Shield® (> 0.07 mm), butyl rubber (> 0.4 mm), nitrile rubber (> 0.75 mm), neoprene (> 0.35 mm), PVC (> 0.5 mm)

Not recommended, gloves(breakthrough time) < 1 hour: Viton® (> 0.7 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** : Use chemical-resistant protective suit / disposable overall.

Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

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

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- 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** : Black. Blue. Brown. Clear. Green. Grey. Off-white. Orange. Purple. Red. Violet. White. Yellow. MCI Base 1 MCI Base 2 MCI Base 3 MCI Base 5 MCI Base 6
- 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: 133.53°C (272.4°F)
- Flammability** : Not applicable.
- Lower and upper explosion limit** : Greatest known range: Lower: 1.05% Upper: 9.8% (propanoic acid, 3-ethoxy-, ethyl ester)
- Flash point** : Closed cup: 32°C
- Auto-ignition temperature** : Lowest known value: 377°C (710.6°F) (propanoic acid, 3-ethoxy-, ethyl ester).
- Decomposition temperature** : Not available.
- pH** : Not applicable.
- Viscosity** : Kinematic (40°C): >20.5 mm<sup>2</sup>/s
- Solubility in water** : cold water Not soluble  
hot water Not soluble
- Partition coefficient: n-octanol/water** : Not available.
- Vapour pressure** : Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 1.19 kPa (8.93 mm Hg) (at 20°C)
- Evaporation rate** : Highest known value: 1 (n-butyl acetate) Weighted average: 0.84 compared with butyl acetate
- Density** : 1.306 to 1.506 g/cm<sup>3</sup>
- Vapour density** : Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.88 (Air = 1)
- Explosive properties** : Not available.
- Oxidising properties** : Not available.
- Particle characteristics**
- Median particle size** : Not applicable.

**9.2 Other information**

No additional information.

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## SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.
- 10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### 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        | 11 mg/l      | 4 hours  |
|                         | LD50 Oral               | Rat        | 4300 mg/kg   | -        |
|                         | TDL <sub>0</sub> 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   | -        |
| pentane-2,4-dione       | LD50 Oral               | Mouse      | 951 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 II Comp A    | N/A          | 13277.3        | N/A                      | 105.4                       | 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                                 |
| pentane-2,4-dione       | 500          | 300            | N/A                      | 3                           | 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                 | -           |
| pentane-2,4-dione       | Eyes - Severe irritant   | Rabbit  | -     | 20 milligrams                          | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 6 hours 11.2 Milliliters Intermittent  | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 488 milligrams                         | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 48 hours 11.2 Milliliters Intermittent | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 6 hours 33.6 Milliliters Intermittent  | -           |

#### Sensitisation

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

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**SECTION 11: Toxicological information****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<br>xylene | Category 3<br>Category 3 | -<br>-            | Narcotic effects<br>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<br>ethylbenzene  | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

Not available.

**11.2.2 Other information**

Not available.

**SECTION 12: Ecological information****12.1 Toxicity**

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

| Product/ingredient name                            | Result                            | Species  | Exposure |
|--|-----------------------------------|--|----------|
| xylene   | Acute LC50 8500 µg/l Marine water | Crustaceans - Palaemonetes pugio               | 48 hours |
| ethylbenzene                                       | Acute LC50 13400 µg/l Fresh water | Fish - Pimephales promelas                     | 96 hours |
|  | Acute EC50 7700 µg/l Marine water | Algae - Skeletonema costatum                   | 96 hours |
| pentane-2,4-dione                                  | Acute EC50 2.93 mg/l              | Daphnia  | 48 hours |
|  | Acute LC50 4.2 mg/l               | Fish   | 96 hours |
|  | Acute EC50 75000 µg/l Fresh water | Crustaceans - Ceriodaphnia reticulata - Larvae | 48 hours |
| decanedioic acid, 1,10-bis (1,2,2,6,6-pentamethyl- | Acute LC50 47600 µg/l Fresh water | Daphnia - Daphnia magna - Neonate              | 48 hours |
|  | Acute LC50 60100 µg/l Fresh water | Fish - Lepomis macrochirus                     | 96 hours |
|  | Acute EC50 1.68 mg/l              | Algae  | 96 hours |

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**SECTION 12: Ecological information**

|   |  |                 |                     |
|---|--|-----------------|---------------------|
| 4-piperidinyl) ester, mixt. with 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) decanedioate | Acute LC50 0.9 mg/l<br>Chronic NOEC 1 mg/l | Fish<br>Daphnia | 96 hours<br>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 |
|-------------------------|-------------------|------------|------------------|
| xylene                  | -                 | -          | Readily          |
| ethylbenzene            | -                 | -          | Readily          |

**12.3 Bioaccumulative potential**

| Product/ingredient name | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------|--------------------|-------------|-----------|
| n-butyl acetate         | 2.3                | -           | low       |
| xylene                  | 3.12               | 8.1 to 25.9 | low       |
| ethylbenzene            | 3.6                | -           | low       |
| pentane-2,4-dione       | 0.68               | -           | low       |

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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 Endocrine disrupting properties**

Not available.

**12.7 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.

Hardtop XP II Comp A

## SECTION 13: Disposal considerations

**Disposal considerations** : Do not allow to enter drains or watercourses.  
 Dispose of according to all federal, state and local applicable regulations.  
 If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.  
 For further information, contact your local waste authority.

### European waste catalogue (EWC)

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

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

### Packaging





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

**Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.  
 Empty containers must be scrapped or reconditioned.  
 Dispose of containers contaminated by the product in accordance with local or national legal provisions.

| Type of packaging | European waste catalogue (EWC)   |
|-------------------|--|
| CEPE Guidelines   | 15 01 10* packaging containing residues of or contaminated by hazardous substances |

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

## SECTION 14: Transport information

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

### Additional information

**ADR/RID** : **Hazard identification number** 30  
**Special provisions** 640E  
**Tunnel code** (D/E)

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

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

Hardtop XP II Comp A

## SECTION 14: Transport information

**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 Maritime 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 EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

**VOC** : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

**VOC for Ready-for-Use Mixture** : Not available.

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

#### Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### Seveso Directive

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

#### National regulations

**Industrial use** : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

#### International regulations

**Hardtop XP II Comp A**

## SECTION 15: Regulatory information

### 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** : Not applicable.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

### **Abbreviations and acronyms**

: ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 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 according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

### Full text of abbreviated H statements

|        |  |
|--------|--|
| ✔ H225 | Highly flammable liquid and vapour.                                |
| H226   | Flammable liquid and vapour.                                       |
| H302   | Harmful if swallowed.  |
| H304   | May be fatal if swallowed and enters airways.                      |
| H311   | Toxic in contact with skin.  |
| H312   | Harmful in contact with skin.                                      |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                               |
| H319   | Causes serious eye irritation.                                     |
| H331   | Toxic if inhaled.  |
| H332   | Harmful if inhaled.  |
| H335   | May cause respiratory irritation.                                  |
| H336   | May cause drowsiness or dizziness.                                 |
| 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.              |



**Hardtop XP II Comp A****SECTION 16: Other information****Full text of classifications [CLP/GHS]**

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

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