

SAFETY DATA SHEET



Hardtop HB Comp A

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

1.1 Product identifier

Product name : Hardtop HB Comp A
Product code : 456
Product description : Paint.
Product type : Liquid.
Other means of identification : Not available.

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

Identified uses

Uses in Coatings - Industrial use
Uses in Coatings - Professional use

1.3 Details of the supplier of the safety data sheet

MANUFACTURER/SUPPLIER:
Jotun Paints (Europe) Ltd.
Stather Road
Flixborough, Scunthorpe
North Lincolnshire
DN15 8RR
England

Tel: +44 17 24 40 00 00
Fax: +44 17 24 40 01 00
SDSJotun@jotun.com

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H336
Aquatic Chronic 3, H412

2.2 Label elements

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SECTION 8: Exposure controls/personal protection

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).

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|--|--|
| n-butyl acetate | EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. |
| xylene | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. |
| ethylbenzene | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 552 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m ³ 8 hours. |
| hydrocarbons, C9, aromatics, (<0.1% Benzene) | EH40-WEL (United Kingdom (UK), 12/2011). Absorbed through skin. TWA: 200 mg/m ³ 8 hours. Form: All forms TWA: 40 ppm 8 hours. Form: All forms |
| toluene | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 384 mg/m ³ 15 minutes. TWA: 191 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. |
| methyl methacrylate | EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 416 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived no effect levels

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Type | Exposure | Value | Population | Effects | |
|--|--------------|-----------------------|--------------------------|-----------------------|-----------|----------|
| n-butyl acetate | DNEL | Short term Inhalation | 960 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term Inhalation | 960 mg/m ³ | Workers | Local | |
| | DNEL | Long term Inhalation | 480 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Inhalation | 480 mg/m ³ | Workers | Local | |
| | DNEL | Short term Inhalation | 859.7 mg/m ³ | Consumers | Systemic | |
| | DNEL | Short term Inhalation | 859.7 mg/m ³ | Consumers | Local | |
| | DNEL | Long term Inhalation | 102.34 mg/m ³ | Consumers | Systemic | |
| | DNEL | Long term Inhalation | 102.34 mg/m ³ | Consumers | Local | |
| xylene | DNEL | Short term Inhalation | 289 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term Inhalation | 289 mg/m ³ | Workers | Local | |
| | DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 77 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Dermal | 108 mg/kg bw/day | Consumers | Systemic | |
| | DNEL | Long term Inhalation | 14.8 mg/m ³ | Consumers | Systemic | |
| | DNEL | Long term Oral | 1.6 mg/kg bw/day | Consumers | Systemic | |
| | ethylbenzene | DNEL | Short term Inhalation | 293 mg/m ³ | Workers | Local |
| DNEL | | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic | |
| DNEL | | Long term Inhalation | 77 mg/m ³ | Workers | Systemic | |
| DNEL | | Long term Inhalation | 15 mg/m ³ | Consumers | Systemic | |
| DNEL | | Long term Oral | 1.6 mg/kg bw/day | Consumers | Systemic | |
| hydrocarbons, C9, aromatics, (<0.1% Benzene) | | DNEL | Long term Dermal | 25 mg/kg bw/day | Workers | Systemic |
| | | DNEL | Long term Inhalation | 150 mg/m ³ | Workers | Systemic |
| | | DNEL | Long term Dermal | 11 mg/kg bw/day | Consumers | Systemic |
| | DNEL | Long term Inhalation | 32 mg/m ³ | Consumers | Systemic | |
| | DNEL | Long term Oral | 11 mg/kg bw/day | Consumers | Systemic | |

Predicted no effect concentrations

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Type | Compartment Detail | Value | Method Detail |
|-------------------------|------|------------------------|------------------|---------------|
| n-butyl acetate | PNEC | Fresh water | 0.18 mg/l | - |
| | PNEC | Marine | 0.018 mg/l | - |
| | PNEC | Sewage Treatment Plant | 35.6 mg/l | - |
| | PNEC | Fresh water sediment | 0.981 mg/kg dwt | - |
| | PNEC | Marine water sediment | 0.0981 mg/kg dwt | - |
| | PNEC | Soil | 0.0903 mg/kg dwt | - |
| xylene | PNEC | Fresh water | 0.327 mg/l | - |
| | PNEC | Marine | 0.327 mg/l | - |
| | PNEC | Sewage Treatment Plant | 6.58 mg/l | - |
| | PNEC | Fresh water sediment | 12.46 mg/kg dwt | - |
| | PNEC | Marine water sediment | 12.46 mg/kg dwt | - |
| | PNEC | Soil | 2.31 mg/kg dwt | - |
| ethylbenzene | PNEC | Fresh water | 0.1 mg/l | - |
| | PNEC | Marine | 0.01 mg/l | - |
| | PNEC | Sewage Treatment Plant | 9.6 mg/l | - |
| | PNEC | Fresh water sediment | 13.7 mg/kg dwt | - |
| | PNEC | Soil | 2.68 mg/kg dwt | - |
| | PNEC | Secondary Poisoning | 20 mg/kg | - |
| toluene | PNEC | Fresh water | 0.68 mg/l | - |
| | PNEC | Marine | 0.68 mg/l | - |
| | PNEC | Sewage Treatment Plant | 13.61 mg/l | - |
| | PNEC | Fresh water sediment | 16.39 mg/kg dwt | - |
| | PNEC | Marine water sediment | 16.39 mg/kg dwt | - |
| | PNEC | Soil | 2.89 mg/kg dwt | - |

8.2 Exposure controls

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

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying to EN 166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

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

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SECTION 8: Exposure controls/personal protection

applied once exposure has occurred.

Wear suitable gloves tested to EN374.

Recommended, gloves(breakthrough time) > 8 hours: fluor rubber, Teflon, polyvinyl alcohol (PVA), 4H

May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber, nitrile rubber

Not recommended, gloves(breakthrough time) < 1 hour: neoprene, PVC, Viton®, PE

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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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 charcoal filter.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

: Liquid.

Colour

: Various colours.

Odour

: Characteristic.

Odour threshold

: Not applicable.

pH

: 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: 130.82°C (267.5°F)

Flash point

: Closed cup: 26°C

Evaporation rate

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

Flammability (solid, gas)

: Not applicable.

Burning time

: Not applicable.

Burning rate

: Not applicable.

Upper/lower flammability or explosive limits

: 0.8 - 7.6%

Vapour pressure

: Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 1.25 kPa (9.38 mm Hg) (at 20°C)

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| | |
|--|---|
| Vapour density | : Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.86 (Air = 1) |
| Relative density | : 1.122 to 1.389 g/cm ³ |
| Solubility(ies) | : Insoluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/ water | : Not available. |
| Auto-ignition temperature | : Lowest known value: 280 to 470°C (536 to 878°F) (Solvent naphtha (petroleum), light arom.). |
| Decomposition temperature | : Not available. |
| Viscosity | : Kinematic (40°C): >0.205 cm ² /s (>20.5 mm ² /s) |
| Explosive properties | : Not available. |
| Oxidising properties | : Not available. |

9.2 Other information

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. |
| 10.2 Chemical stability | : The product is stable. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| 10.5 Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.6 Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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

Contains methyl methacrylate, fatty acids, C18-unsatd., trimers, compds. with oleylamine, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.

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SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-------------------------|---------|-------------------------|----------|
| n-butyl acetate | LC50 Inhalation Vapour | Rat | >21.1 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| | LD50 Oral | Rat | 13100 mg/kg | - |
| xylene | LC50 Inhalation Vapour | Rat | 20 mg/l | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | TDL _o Dermal | Rabbit | 4300 mg/kg | - |
| ethylbenzene | LC50 Inhalation Gas. | Rabbit | 4000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| toluene | LC50 Inhalation Vapour | Rat | 49 g/m ³ | 4 hours |
| | LD50 Oral | Rat | 636 mg/kg | - |
| | LC50 Inhalation Vapour | Rat | 78000 mg/m ³ | 4 hours |
| methyl methacrylate | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 7872 mg/kg | - |

Acute toxicity estimates

| Route | ATE value |
|----------------------|--------------|
| Dermal | 8627.9 mg/kg |
| Inhalation (vapours) | 64.77 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|--------------------------|-------------|
| toluene | Eyes - Mild irritant | Rabbit | - | 0.5 minutes | - |
| | | | | 100 milligrams | |
| | Eyes - Mild irritant | Rabbit | - | 870 Micrograms | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 2 milligrams | - |
| | Skin - Mild irritant | Pig | - | 24 hours 250 microliters | - |
| | Skin - Mild irritant | Rabbit | - | 435 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 500 milligrams | - |

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|--|------------|-------------------|----------------|
| ethylbenzene | Category 2 | Not determined | hearing organs |
| toluene | Category 2 | Not determined | Not determined |
| fatty acids, C18-unsatd., trimers, compds. with oleylamine | Category 2 | Not determined | Not determined |
| Fatty acids, tall-oil, compds. with oleylamine | Category 2 | Not determined | Not determined |

Aspiration hazard

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SECTION 11: Toxicological information

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

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|----------------------|---------|----------|
| ethylbenzene hydrocarbons, C9, aromatics, (<0.1% Benzene) | Acute EC50 7.2 mg/l | Algae | 48 hours |
| | Acute EC50 2.93 mg/l | Daphnia | 48 hours |
| | Acute LC50 4.2 mg/l | Fish | 96 hours |
| | Acute EC50 <10 mg/l | Daphnia | 48 hours |
| | Acute IC50 <10 mg/l | Algae | 72 hours |
| | Acute LC50 <10 mg/l | Fish | 96 hours |

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

12.2 Persistence and degradability

Conclusion/Summary : Not available.

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SECTION 12: Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| xylene | - | - | Readily |
| ethylbenzene | - | - | Readily |
| hydrocarbons, C9, aromatics, (<0.1% Benzene) | - | - | Not readily |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|-------------|-----------|
| n-butyl acetate | 2.3 | - | low |
| xylene | 3.12 | 8.1 to 25.9 | low |
| ethylbenzene | 3.6 | - | low |
| hydrocarbons, C9, aromatics, (<0.1% Benzene) | - | 10 to 2500 | high |
| toluene | 2.73 | 90 | low |
| methyl methacrylate | 1.38 | - | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

European waste catalogue (EWC) : 08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transport information

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.

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

International transport regulations

14.1 UN number : 1263

14.2 UN proper shipping name : Paint.

14.3 Transport hazard class(es) : 3

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SECTION 14: Transport information



- 14.4 Packing group** : III
- 14.5 Environmental hazards** : No.
- 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.
- Additional information**
- ADR / RID** : Tunnel restriction code: (D/E)
Hazard identification number: 30
ADR/RID: Viscous substance. Not restricted, ref. chapter 2.2.3.1.5 (applicable to receptacles < 450 litre capacity).
- IMDG** : **Emergency schedules (EmS)**
F-E, S-E
IMDG: Viscous substance. Transport in accordance with paragraph 2.3.2.5 (applicable to receptacles < 30 litre capacity).
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.
- IMDG Code Segregation group** : 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

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

Europe inventory : At least one component is not listed.

Black List Chemicals : Not listed

Industrial emissions : Not listed

(integrated pollution prevention and control) - Air

Industrial emissions : Not listed

(integrated pollution prevention and control) - Water

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SECTION 15: Regulatory information

| Product/ingredient name | Carcinogenic effects | Mutagenic effects | Developmental effects | Fertility effects |
|---|----------------------|-------------------|-------------------------------|-------------------|
| <input checked="" type="checkbox"/> Toluene | - | - | Repr. 2, H361d (Unborn child) | - |

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : 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]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |
| STOT SE 3, H336 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

Full text of abbreviated H statements : H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 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.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361d Suspected of damaging the unborn child.
 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.

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Hardtop HB Comp A**SECTION 16: Other information**

| | | |
|---|---|--|
| Full text of classifications [CLP/GHS] | : <input checked="" type="checkbox"/> Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411 Aquatic Chronic 3, H412 Asp. Tox. 1, H304 EUH066 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Repr. 2, H361d Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 2, H373 STOT SE 3, H335 STOT SE 3, H336 | ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 2 LONG-TERM AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY (Unborn child) - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3 |
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| Version | : 8 | |

Notice to reader

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