SAFETY DATA SHEET



8-140 HS Hardener Fast

Section 1. Identification

Product identifier : 8-140 HS Hardener Fast

Product type : Liquid.

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

Identified uses

Use in coatings - Hardener.

Uses advised against

Not applicable.

Supplier's details

Manufacturer : Valspar b.v.

Zuiveringweg 89 8243 PE Lelystad The Netherlands

tel: +31 (0)320 292200 fax: +31 (0)320 292201

Emergency telephone

number

: Call: +31 (0)320 292200 (during daytime)

Supplier : Valspar Automotive Australia Pty Limited

4 Hawke Street Kincumber NSW 2251

AUSTRALIA T: +612 4368 4054 E: autoinfo@valspar.com www.de-beer.com

Emergency telephone

number

: CHEMTREC +(61) 290372994 (Available 24hrs/7 days a week)

Poisons Information Centre: Australia 131 126

Section 2. Hazard(s) identification

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 1

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -

Category 3

ASPIRATION HAZARD - Category 1

GHS label elements

Hazard pictograms







Signal word : DANGER

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 1/16

Section 2. Hazard(s) identification

Hazard statements

Flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eve irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

May cause cancer.

Precautionary statements

Prevention

: Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapour. Wash thoroughly after handling.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

: Store in a well-ventilated place. Keep container tightly closed.

Disposal

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

Supplemental label elements

: Not applicable.

Other hazards which do not : None known.

result in classification

Section 3. Composition and ingredient information

Substance/mixture : Mixture

| Ingredient name | % (w/w) | CAS number |
|--|-----------|------------|
| Aliphatic polyisocyanate | ≥30 - ≤47 | 28182-81-2 |
| 2-methoxy-1-methylethyl acetate | ≥10 - ≤30 | 108-65-6 |
| xylene | <10 | 1330-20-7 |
| Solvent naphtha (petroleum), light arom. | ≤10 | 64742-95-6 |
| trimethylbenzene | ≤4.2 | 25551-13-7 |
| n-butyl acetate | ≤3 | 123-86-4 |
| ethylbenzene | ≤2.3 | 100-41-4 |
| mesitylene | ≤3 | 108-67-8 |
| 1,2,4-trimethylbenzene | ≤1.7 | 95-63-6 |
| cumene | <1 | 98-82-8 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version: 1 2/16

Section 4. First aid measures

Description of necessary first aid measures

Eye 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.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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

Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed

and enters airways.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : Adverse symptoms may include the following:

nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 3/16

Section 4. First aid measures

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments Protection of first-aiders

- : No specific treatment.
- No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

nitrogen oxides

Specific hazards arising from the chemical

: 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. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide

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.

: •3Y **Hazchem code**

Section 6. Accidental release measures

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".

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).

Methods and material for containment and cleaning up

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version: 1 4/16

Section 6. Accidental release measures

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.

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.

Section 7. Handling and storage

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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapour or mist. 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.

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. Store locked up. 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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|---------------------------------|---|
| Aliphatic polyisocyanate | Safe Work Australia (Australia, 12/2019). [Isocyanates, all] Skin sensitiser. STEL: 0.07 mg/m³, (as -NCO) 15 minutes. TWA: 0.02 mg/m³, (as -NCO) 8 hours. |
| 2-methoxy-1-methylethyl acetate | Safe Work Australia (Australia, 12/2019). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 274 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. |

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 5/16

Section 8. Exposure controls and personal protection

STEL: 548 mg/m³ 15 minutes. xylene Safe Work Australia (Australia, 12/2019). [Xylene (o-, m-, p- isomers)] STEL: 655 mg/m³, 0 times per shift, 15 minutes. STEL: 150 ppm, 0 times per shift, 15 minutes. TWA: 350 mg/m³, 0 times per shift, 8 TWA: 80 ppm, 0 times per shift, 8 hours. Safe Work Australia (Australia, 12/2019). trimethylbenzene [Trimethyl benzene] TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours. n-butyl acetate Safe Work Australia (Australia, 12/2019). STEL: 950 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 713 mg/m³ 8 hours. TWA: 150 ppm 8 hours. ethylbenzene Safe Work Australia (Australia, 12/2019). STEL: 543 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours. mesitylene Safe Work Australia (Australia, 12/2019). [Trimethyl benzene] TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours. 1,2,4-trimethylbenzene Safe Work Australia (Australia, 12/2019). [Trimethyl benzene]

cumene

Absorbed through skin.
STEL: 375 mg/m³ 15 minutes.
STEL: 75 ppm 15 minutes.
TWA: 125 mg/m³ 8 hours.
TWA: 25 ppm 8 hours.

Safe Work Australia (Australia, 12/2019).

TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours.

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.

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.

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.

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 6/16

Section 8. Exposure controls and personal protection

Eye/face protection

: Safety eyewear complying with an approved standard 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. Recommended: If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Recommended EN 374 butyl rubber polyvinyl alcohol (PVA) Viton® >= 0.7 mm

4 - 8 hours (breakthrough time): Recommended EN 374 neoprene >= 0.7 mm < 1 hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (>= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

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. Recommended: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

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

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: full-face mask supplied-air respirator

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state
Colour
Colour
Colour
Colour
Colour
Colour
Colour
Colourless.
Colourless.
Ethereal.
Not available.
Not applicable.
Melting point/freezing point
Colourless.
Not available.
Not applicable.
Not applicable.
Soiling point, initial boiling
point, and boiling range

Flash point : Closed cup: 36°C (96.8°F)
Evaporation rate : 0.9 (butyl acetate = 1)

Flammability : Not available.

Lower and upper explosion | Lower: 0.8% | Upper: 7.6%

Vapour pressure : 1.3 kPa (10 mm Hg)

Relative vapour density : 4.4 [Air = 1]
Relative density : 1.008

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 7/16

8-140 HS Hardener Fast

Section 9. Physical and chemical properties and safety characteristics

Density : 1.008 g/cm³

Solubility(ies)

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

Solubility in water : Not applicable.

Miscible with water : No.

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : 333°C (631.4°F) **Decomposition temperature** : Not applicable.

Viscosity : Kinematic (40°C (104°F)): 4 mm²/s (4 cSt)

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

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

Chemical stability: The product is stable.

Possibility of hazardous

reactions

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

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. Do not

allow vapour to accumulate in low or confined areas.

Incompatible materials : Reactive or incompatible with the following materials:

oxidising materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------|---------------------------------|----------------|-------------|----------|
| Aliphatic polyisocyanate | LC50 Inhalation Dusts and mists | Rat | 18500 mg/m³ | 1 hours |
| | LC50 Inhalation Dusts and mists | Rat | 2.18 mg/l | 4 hours |
| | LD50 Dermal | Rabbit - Male, | >2000 mg/kg | - |
| | | Female | | |
| | LD50 Dermal | Rat - Male, | >2000 mg/kg | - |
| | | Female | | |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| 2-methoxy-1-methylethyl | LD50 Dermal | Rabbit | >5 g/kg | - |
| acetate | | | | |
| | LD50 Dermal | Rat | >5000 mg/kg | - |
| | LD50 Oral | Rat | 8532 mg/kg | - |
| xylene | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Vapour | Rat - Male | 29000 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 12126 mg/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | | | | |

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 8/16

Section 11. Toxicological information

| Solvent naphtha (petroleum), light arom. | LC50 Inhalation Vapour | Rat | 6193 mg/m³ | 4 hours |
|--|------------------------|--------|-------------------------|---------|
| light arom. | LD50 Dermal | Rabbit | >3160 mg/kg | _ |
| | LD50 Oral | Rat | 3592 mg/kg | _ |
| trimethylbenzene | LD50 Oral | Rat | 8970 mg/kg | - |
| n-butyl acetate | LC50 Inhalation Gas. | Rat | 390 ppm | 4 hours |
| | LC50 Inhalation Vapour | Rat | >21.1 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >14112 mg/kg | - |
| | LD50 Oral | Rat | 10760 mg/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 6350 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 12126 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| mesitylene | LC50 Inhalation Vapour | Rat | 24000 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| 1,2,4-trimethylbenzene | LC50 Inhalation Vapour | Rat | 18000 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 5 g/kg | - |
| cumene | LC50 Inhalation Vapour | Rat | 39000 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 1400 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------|----------------------------|------------|-------|---------------|-------------|
| Aliphatic polyisocyanate | Eyes - Mild irritant | Rabbit | - | - | - |
| | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 4 hours | - |
| | Skin - Moderate irritant | Rabbit | - | 500 mg | - |
| xylene | Eyes - Mild irritant | Rabbit | - | 87 mg | - |
| • | Eyes - Severe irritant | Rabbit | _ | 24 hours 5 | - |
| | | | | mg | |
| | Skin - Mild irritant | Rat | _ | 8 hours 60 uL | - |
| | Skin - Moderate irritant | Rabbit | _ | 100 % | - |
| | Skin - Moderate irritant | Rabbit | _ | 24 hours 500 | _ |
| | | | | mg | |
| Solvent naphtha (petroleum), | Eyes - Mild irritant | Rabbit | _ | 24 hours 100 | _ |
| light arom. | | 1 10.0 0.1 | | uL | |
| trimethylbenzene | Eyes - Mild irritant | Rabbit | _ | 24 hours 500 | _ |
| amioary is on Eorio | Lyos mila imani | T CODDIT | | mg | |
| | Skin - Moderate irritant | Rabbit | _ | 24 hours 500 | _ |
| | Ciair Mederate irritarit | T CODDIT | | mg | |
| n-butyl acetate | Eyes - Moderate irritant | Rabbit | _ | 100 mg | _ |
| ii batyi addiato | Skin - Moderate irritant | Rabbit | | 24 hours 500 | _ |
| | Okin Woderate irritarit | Rabbit | | mg | |
| ethylbenzene | Eyes - Severe irritant | Rabbit | | 500 mg | _ |
| Chrybenzene | Skin - Mild irritant | Rabbit | | 24 hours 15 | |
| | Okin - Wild irritarit | Rabbit | | mg | |
| mesitylene | Eyes - Mild irritant | Rabbit | | 24 hours 500 | _ |
| meditylene | Lycs Willa II Italic | Rabbit | | mg | |
| | Skin - Moderate irritant | Rabbit | | 24 hours 20 | _ |
| | Okin - Moderate irritarit | Rabbit | | mg | |
| cumene | Eyes - Mild irritant | Rabbit | | 24 hours 500 | |
| cumene | Lyes - Willa II Italit | INADDIL | _ | | - |
| | Eyes - Mild irritant | Rabbit | | mg 86 mg | |
| | Skin - Mild irritant | Rabbit | | 24 hours 10 | |
| | OKITI - IVIIIU IITILATIL | TADDIL | [| mg | _ |
| | Skin - Moderate irritant | Rabbit | | 24 hours 100 | |
| | Skiii - Moderate iiritarit | างสมมเ | [| | _ |
| | | | | mg | |

Sensitisation

| 3 | Route of exposure | Species | Result |
|--------------------------|-------------------|------------|-------------|
| Aliphatic polyisocyanate | skin | Guinea pig | Sensitising |
| | skin | Mouse | Sensitising |

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 9/16

Section 11. Toxicological information

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|--------------------------|--|---|----------------------|
| Aliphatic polyisocyanate | OECD 471 Bacterial Reverse Mutation Test OECD 476 In vitro Mammalian Cell Gene Mutation Test | Experiment: In vitro Subject: Bacteria Metabolic activation: +/- Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: +/- | Negative Negative |

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|--|------------|-------------------|------------------------------|
| Aliphatic polyisocyanate | Category 3 | - | Respiratory tract irritation |
| 2-methoxy-1-methylethyl acetate | Category 3 | - | Narcotic effects |
| xylene | Category 3 | - | Respiratory tract irritation |
| Solvent naphtha (petroleum), light arom. | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| n-butyl acetate | Category 3 | - | Narcotic effects |
| mesitylene | Category 3 | - | Respiratory tract irritation |
| 1,2,4-trimethylbenzene | Category 3 | - | Respiratory tract irritation |
| cumene | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | 3.5 | Route of exposure | Target organs |
|-------------------------|------------|-------------------|---------------|
| xylene | Category 2 | - | - |
| ethylbenzene | Category 2 | - | - |

Aspiration hazard

| Product/ingredient name | Result |
|--|--------------------------------|
| xylene | ASPIRATION HAZARD - Category 1 |
| Solvent naphtha (petroleum), light arom. | ASPIRATION HAZARD - Category 1 |
| trimethylbenzene | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |
| cumene | ASPIRATION HAZARD - Category 1 |

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact

: Causes skin irritation. May cause an allergic skin reaction.

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 10/16

Section 11. Toxicological information

Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

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:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : Adverse symptoms may include the following:

nausea or vomiting

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------|---|-----------------------|-----------|-----------------------------|
| Aliphatic polyisocyanate | Sub-chronic NOAEL Inhalation Dusts and mists | Rat - Male, Female | 3.3 mg/m³ | 90 days; 6 hours per day |

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

to very low levels.

Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

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) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| 8-140 HS Hardener Fast | N/A | 12158.6 | 55266.4 | 21.3 | N/A |
| Aliphatic polyisocyanate | N/A | N/A | N/A | 11 | N/A |
| 2-methoxy-1-methylethyl acetate | 8532 | N/A | N/A | N/A | N/A |
| xylene | 4300 | 1100 | 5000 | 29000 | N/A |
| Solvent naphtha (petroleum), light arom. | 3592 | N/A | N/A | N/A | N/A |
| trimethylbenzene | 8970 | N/A | N/A | 11 | N/A |
| n-butyl acetate | 10760 | N/A | N/A | N/A | N/A |

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 11/16

8-140 HS Hardener Fast

Section 11. Toxicological information

| /lbenzene | 3500 | 12126 | N/A | 11 | N/A |
|--------------------|------|-------|-----|----|-----|
| sitvlene | 5000 | N/A | N/A | 24 | N/A |
| 4-trimethylbenzene | 5000 | N/A | N/A | 18 | N/A |
| nene | N/A | N/A | N/A | 39 | N/A |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|------------------------------|-------------------------------------|--------------------------------------|-----------|
| Aliphatic polyisocyanate | Acute EC50 >1000 mg/l | Algae - Scenedesmus | 72 hours |
| | | subspicatus | |
| | Acute EC50 >100 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 >100 mg/l | Fish - Danio rerio | 96 hours |
| 2-methoxy-1-methylethyl | Acute EC50 >1000 mg/l | Algae - Pseudokirchnerella | 96 hours |
| acetate | _ | subcapitata | |
| | Acute EC50 408 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 134 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| xylene | Acute EC50 1 to 10 mg/l | Algae | 72 hours |
| | Acute EC50 1 to 10 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 8500 µg/l Marine water | Crustaceans - Palaemonetes | 48 hours |
| | | pugio | |
| | Acute LC50 13400 μg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| Solvent naphtha (petroleum), | Acute EC50 2.9 mg/l | Algae - Pseudokirchneriella | 72 hours |
| light arom. | | subcapitata | |
| | Acute EC50 3.2 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 9.2 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute NOEC >1 mg/l | Algae - Pseudokirchneriella | 72 hours |
| | | subcapitata | |
| trimethylbenzene | Acute LC50 5600 µg/l Marine water | Crustaceans - Palaemonetes | 48 hours |
| | | pugio | |
| n-butyl acetate | Acute EC50 397 mg/l | Algae - Selenastrum | 72 hours |
| | | capricornutum | |
| | Acute EC50 44 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 32 mg/l Marine water | Crustaceans - Artemia salina | 48 hours |
| | Acute LC50 18 mg/l | Fish - Pimephales promelas | 96 hours |
| | Acute NOEC 200 mg/l | Algae | 72 hours |
| ethylbenzene | Acute EC50 4900 µg/l Marine water | Algae - Skeletonema costatum | 72 hours |
| | Acute EC50 7700 μg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| | Acute EC50 6.53 mg/l Marine water | Crustaceans - Artemia sp | 48 hours |
| | A | Nauplii | 40 5 |
| | Acute EC50 2.93 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 4200 µg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| mesitylene | Acute LC50 13000 µg/l Marine water | Crustaceans - Cancer magister - | 48 hours |
| • | | Zoea | |
| | Acute LC50 12520 μg/l Fresh water | Fish - Carassius auratus | 96 hours |
| | Chronic NOEC 400 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| 1,2,4-trimethylbenzene | Acute LC50 4910 µg/l Marine water | Crustaceans - Elasmopus | 48 hours |
| | | pectenicrus - Adult | |
| | Acute LC50 7720 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| cumene | Acute EC50 7.4 mg/l Marine water | Crustaceans - Artemia sp Nauplii | 48 hours |
| | Acute EC50 10.6 mg/l Eroch water | Daphnia - Daphnia magna - | 48 hours |
| | Acute EC50 10.6 mg/l Fresh water | Neonate | 40 110015 |
| | Acute LC50 2700 μg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | / touto 2000 2700 µg/11 lesii watel | 1 1311 - Officertryffichus Hrykiss | Jornouis |

Persistence and degradability

Section 12. Ecological information

| Product/ingredient name | Test | Result | | Dose | Inoculum |
|--|--|-----------------------|------------|------|------------------|
| Aliphatic polyisocyanate | EU 67/548/EEC ANNEX V, C.4.E. | 1 % - Not readily - 2 | 8 days | - | - |
| 2-methoxy-1-methylethyl acetate | OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test | 100 % - 28 days | | - | - |
| | OECD 301F Ready Biodegradability - Manometric Respirometry Test | 83 % - 28 days | | - | - |
| Solvent naphtha (petroleum), light arom. | - | 78 % - Readily - 28 | days | - | Fresh water |
| n-butyl acetate | OECD 301D Ready Biodegradability - Closed Bottle Test | >80 % - 5 days | | - | - |
| Product/ingredient name | Aquatic half-life | • | Photolysis | | Biodegradability |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------|----------------------------|------------|------------------|
| Aliphatic polyisocyanate | Fresh water 7.7 days, 23°C | - | Not readily |
| 2-methoxy-1-methylethyl | - | - | Readily |
| acetate | | | |
| Solvent naphtha (petroleum), | - | - | Readily |
| light arom. | | | |
| n-butyl acetate | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|------------|-------------|-----------|
| Aliphatic polyisocyanate | 5.54 | 367.7 | low |
| 2-methoxy-1-methylethyl acetate | 1.2 | - | low |
| xylene | 3.12 | 8.1 to 25.9 | low |
| Solvent naphtha (petroleum), light arom. | - | 10 to 2500 | high |
| trimethylbenzene | 3.4 to 3.8 | - | low |
| n-butyl acetate | 2.3 | - | low |
| ethylbenzene | 3.6 | - | low |
| mesitylene | 3.42 | 161 | low |
| 1,2,4-trimethylbenzene | 3.63 | 243 | low |
| cumene | 3.55 | 35.48 | low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 13/16

Section 13. Disposal considerations

Disposal methods

: 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

| | ADG | ADR/RID | IMDG | IATA |
|----------------------------|---------------------------|---------------------------|---------------------------|------------------------|
| UN number | UN1263 | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | Paint related material |
| Transport hazard class(es) | 3 | 3 | 3 | 3 |
| Packing group | III | III | III | III |
| Environmental hazards | No. | No. | No. | No. |

Additional information

ADG : <u>Hazchem code</u> •3Y

Special provisions 163, 223, 367

ADR/RID : <u>Hazard identification number</u> 30

Limited quantity 5 L

Special provisions 163, 640E, 650, 367

Tunnel code (D/E)

IMDG : <u>Emergency schedules</u> F-E, S-E

Special provisions 163, 223, 367, 955

IATA : Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions:

355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities -

Passenger Aircraft: 10 L. Packaging instructions: Y344.

Special provisions A3, A72, A192

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.

Transport in bulk according to IMO instruments

: Not available.

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 14/16

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Eurasian Economic Union: Russian Federation inventory: All components are listed or exempted.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.
Taiwan : All components are listed or exempted.
Thailand : All components are listed or exempted.

Turkey : Not determined.
United States : Not determined.

Viet Nam : All components are listed or exempted.

Section 16. Any other relevant information

History

Date of printing : 12/16/2022 Date of issue/Date of : 12/16/2022

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Key to abbreviations : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 15/16

Section 16. Any other relevant information

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

| Classification | Justification |
|--|-----------------------|
| FLAMMABLE LIQUIDS - Category 3 | On basis of test data |
| SKIN CORROSION/IRRITATION - Category 2 | Calculation method |
| SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A | Calculation method |
| SKIN SENSITISATION - Category 1 | Calculation method |
| CARCINOGENICITY - Category 1 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3 | Calculation method |
| ASPIRATION HAZARD - Category 1 | Calculation method |

References : Not available.

▼ Indicates information that has changed from previously issued version.

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Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 16/16