SAFETY DATA SHEET



8-160 HS Hardener Slow

Section 1. Identification

Product identifier : 8-160 HS Hardener Slow

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

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 1/15

8-160 HS Hardener Slow

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 eye irritation.

May cause respiratory irritation.

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 - ≤46	28182-81-2
2-methoxy-1-methylethyl acetate	≤10	108-65-6
xylene	<10	1330-20-7
Solvent naphtha (petroleum), light arom.	≤9.4	64742-95-6
trimethylbenzene	≤4.6	25551-13-7
ethylbenzene	≤2.4	100-41-4
mesitylene	≤3	108-67-8
1,2,4-trimethylbenzene	≤1.9	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 2/15

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 : May cause respiratory irritation.

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

Ingestion : 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

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

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 : No specific treatment.

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 3/15

Section 4. First aid measures

Protection of first-aiders

: 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.

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 nitrogen oxides

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

Small spill

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

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version: 1 4/15

Section 6. Accidental release measures

Large spill

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

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. 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.

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 5/15

trimethylbenzene

ethylbenzene

mesitylene

cumene

Section 8. Exposure controls and personal protection

STEL: 150 ppm, 0 times per shift, 15

minutes.

TWA: 350 mg/m³, 0 times per shift, 8

hours.

TWA: 80 ppm, 0 times per shift, 8 hours. Safe Work Australia (Australia, 12/2019).

[Trimethyl benzene]

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

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.

Safe Work Australia (Australia, 12/2019).

[Trimethyl benzene] TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours.

Safe Work Australia (Australia, 12/2019).

[Trimethyl benzene]

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

Safe Work Australia (Australia, 12/2019).

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.

Appropriate engineering controls

1,2,4-trimethylbenzene

: 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.

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

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 6/15

Section 8. Exposure controls and personal 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: 34°C (93.2°F)
Evaporation rate : 0.81 (butyl acetate = 1)

Flammability : Not available.

Lower and upper explosion imit/flammability limit : Lower: 0.8% Upper: 12.7%

Vapour pressure : 0.8 kPa (6 mm Hg)

Relative vapour density : 4.7 [Air = 1]
Relative density : 1.025
Density : 1.025 g/cm³

Solubility(ies)

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water : Not applicable.

Date of issue/Date of revision: 12/16/2022Date of previous issue: 12/16/2022Version: 17/15

Section 9. Physical and chemical properties and safety characteristics

Miscible with water

Partition coefficient: n-

octanol/water

: Not applicable.

No.

Auto-ignition temperature

: 333°C (631.4°F) : Not applicable.

Decomposition temperature Viscosity

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

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

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

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

Result	Species	Dose	Exposure
LC50 Inhalation Dusts and mists	Rat	18500 mg/m ³	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	-
LD50 Dermal	Rabbit	>5 g/kg	-
I D50 Dermal	Rat	>5000 mg/kg	_
			_
			4 hours
	Rat - Male		4 hours
LD50 Dermal	Rabbit	12126 mg/kg	-
LD50 Oral	Rat	4300 mg/kg	-
LC50 Inhalation Vapour	Rat	6193 mg/m³	4 hours
LD50 Dermal	Rabbit	>3160 ma/ka	-
LD50 Oral	Rat		-
LD50 Oral	Rat		-
LC50 Inhalation Vapour	Rat	6350 ppm	4 hours
LD50 Dermal	Rabbit	12126 mg/kg	-
LD50 Oral	Rat	3500 mg/kg	-
	LC50 Inhalation Dusts and mists LC50 Inhalation Dusts and mists LD50 Dermal LD50 Dermal LD50 Dermal LD50 Dermal LD50 Oral LC50 Inhalation Gas. LC50 Inhalation Vapour LD50 Dermal LC50 Inhalation Vapour LD50 Oral LC50 Inhalation Vapour LD50 Dermal LC50 Inhalation Vapour LD50 Dermal LC50 Inhalation Vapour	LC50 Inhalation Dusts and mists LC50 Inhalation Dusts and mists LD50 Dermal LD50 Dermal LD50 Oral LD50 Dermal LD50 Dermal Rat Rabbit Rat Rabbit Rat Rabbit Rat Rabbit Rat LC50 Inhalation Gas. LC50 Inhalation Vapour LD50 Oral LC50 Inhalation Vapour LD50 Dermal Rat Rat Rabbit Rat Rabbit	LC50 Inhalation Dusts and mists LC50 Inhalation Dusts and mists LD50 Dermal LD50 Dermal Rat - Male, Female LD50 Oral LD50 Dermal Rat - Male, Female Rat - S000 mg/kg Female LD50 Dermal Rat - S000 mg/kg Female Rat - S000 mg/kg Rabbit Rat - S000 mg/kg Rat - Male - Rabbit - S000 mg/kg Rat - Male - S000 mg/kg Rat - S000 mg/kg Rat - Male - Ma

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version: 1 8/15

Section 11. Toxicological information

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), light arom.	Eyes - Mild irritant	Rabbit	-	24 hours 100 uL	-
trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
ethylbenzene	Eyes - Severe irritant	Rabbit	_	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
mesitylene	Eyes - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	_	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-

Sensitisation

• • • • • • • • • • • • • • • • • • • •	Route of exposure	Species	Result
Aliphatic polyisocyanate	skin skin	Guinea pig Mouse	Sensitising Sensitising

Mutagenicity

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

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 9/15

Section 11. Toxicological information

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
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		Route of exposure	Target organs
	Category 2 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 : May cause respiratory irritation.

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

Ingestion : 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

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : Adverse symptoms may include the following:

nausea or vomiting

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 10/15

Section 11. Toxicological information

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

Short term exposure

Potential immediate

: Not available.

effects

: Not available. Potential delayed effects

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)
8-160 HS Hardener Slow	N/A	11970.8	54412.9	21.1	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
ethylbenzene	3500	12126	N/A	11	N/A
mesitylene	5000	N/A	N/A	24	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	N/A
cumene	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 subspicatus	72 hours
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >100 mg/l	Fish - Danio rerio	96 hours
2-methoxy-1-methylethyl acetate	Acute EC50 >1000 mg/l	Algae - Pseudokirchnerella subcapitata	96 hours
	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 pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours

Section 12. Ecological information

Solvent naphtha (petroleum),	Acute EC50 2 0 mg/l	Algae - Pseudokirchneriella	72 hours
	Acute EC30 2.9 mg/l	subcapitata	12 110015
light arom.	Acute FCEO 2 2 mg/l	•	10 hours
	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 subcapitata	72 hours
trimethylbenzene	Acute LC50 5600 μg/l Marine water	Crustaceans - Palaemonetes	48 hours
		pugio	
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
	_	Nauplii	
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	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	48 hours
		Nauplii	
	Acute EC50 10.6 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 2700 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Aliphatic polyisocyanate	EU 67/548/EEC	1 % - Not readily - 2	8 days	-	-
2-methoxy-1-methylethyl acetate	ANNEX V, C.4.E. OECD 302B Inherent Biodegradability: Zahn-Wellens/	100 % - 28 days		-	-
	EMPA Test OECD 301F Ready Biodegradability - Manometric Respirometry Test	83 % - 28 days		-	-
Solvent naphtha (petroleum), light arom.	-	78 % - Readily - 28	days	-	Fresh water
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
Aliphatic polyisocyanate 2-methoxy-1-methylethyl acetate Solvent naphtha (petroleum),	Fresh water 7.7 days, 23°C -		-		Not readily Readily Readily
light arom.					,

Bioaccumulative potential

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

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Aliphatic polyisocyanate	5.54	367.7	low
2-methoxy-1-methylethyl	1.2	-	low
acetate			
xylene	3.12	8.1 to 25.9	low
Solvent naphtha (petroleum),	-	10 to 2500	high
light arom.			
trimethylbenzene	3.4 to 3.8	-	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.

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

: Hazchem code •3Y

Special provisions 163, 223, 367

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version : 1 13/15

8-160 HS Hardener Slow

Section 14. Transport information

: Hazard identification number 30

Limited quantity 5 L

Special provisions 163, 640E, 650, 367

Tunnel code (D/E)

IMDG : Emergency schedules 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 : Not available.

to IMO instruments

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)

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** : All components are listed or exempted.

United States : Not determined.

Viet Nam : All components are listed or exempted.

Date of issue/Date of revision : 12/16/2022 Date of previous issue : 12/16/2022 Version: 1 14/15

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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Date of previous issue : 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,

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
ASPIRATION HAZARD - Category 1	Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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