# SAFETY DATA SHEET

Date of issue/Date of revision 14 June 2022

Version 5.04



## **Section 1. Identification**

**Product code** : 625-9386/5L

Product identifier : AU-625 POLYTHANE HARDENER - FAST

Recommended use and restrictions

Use of the substance/

mixture

: Coating.

Uses advised against

: Not applicable.

Supplier's details

: PPG Industries Australia Pty Limited

(ABN 82 055 500 939) 14-20 McNaughton Rd CLAYTON Victoria 3168

Tel: (03) 9263 6000 Fax: (03) 9263 6970

**Emergency telephone** 

number

: Australia 1800 883 254 / New Zealand 0800 000 096 For international shipping emergencies: 1-412-391-1618

## Section 2. Hazard(s) identification

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

ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

SKIN SENSITISATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract

irritation) - Category 3

**GHS** label elements

Hazard pictograms :





Signal word : WARNING

Hazard statements : Flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

May cause respiratory irritation.

**Precautionary statements** 

**Prevention** 

: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapour. Wash thoroughly after handling.

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## Section 2. Hazard(s) identification

Response : FINHALED: Call a POISON CENTER or doctor if you feel unwell. 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 result in classification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition and ingredient information

Substance/mixture : Mixture

#### **CAS** number/other identifiers

**CAS number** : Not applicable. **EC number** : Mixture.

| Ingredient name  | CAS number     | % (w/w)  |
|--|----------------|----------|
| ₩examethylene diisocyanate, oligomers                              | 28182-81-2     | 30 - 60  |
| xylene   | 1330-20-7      | 10 - <30 |
| n-butyl acetate  | 123-86-4       | 10 - <30 |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | 53880-05-0 (EC | 10 - <30 |
| (isocyanurate type)  | 931-312-3)     |          |
| ethylbenzene   | 100-41-4       | 1 - <10  |
| 2-methoxy-1-methylethyl acetate                                    | 108-65-6       | 1 - <10  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment or have an OEL and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the

eyelids apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognised skin cleanser. Do NOT use solvents or thinners.

**Ingestion**: If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

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### Section 4. First aid measures

**Inhalation** : Harmful if inhaled. May cause respiratory irritation.

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

**Ingestion** : No known significant effects or critical hazards.

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**: No specific data.

#### 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.

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** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. media

Unsuitable extinguishing media

ilicula

: 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.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon oxides

nitrogen oxides

Cyanate and isocyanate. hydrogen cyanide

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.

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#### 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.

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.

**Special provisions** 

: 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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

# Section 7. Handling and storage

**Precautions for safe handling** 

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## Section 7. Handling and storage

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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.

# including any incompatibilities

Conditions for safe storage, : Do not store above the following temperature: 50°C (122°F). 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.

Precautions should be taken to minimise exposure to atmospheric humidity or water. CO<sub>2</sub> will be formed, which, in closed containers, could result in pressurisation.

# Section 8. Exposure controls and personal protection

#### **Control parameters**

#### Occupational exposure limits

Hexamethylene diisocyanate, oligomers 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. Safe Work Australia (Australia, 12/2019). xylene [Xylene (o-, m-, p- isomers)] STEL: 655 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 350 mg/m<sup>3</sup> 8 hours. TWA: 80 ppm 8 hours. Safe Work Australia (Australia, 12/2019). n-butyl acetate STEL: 950 ma/m<sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 713 mg/m<sup>3</sup> 8 hours. TWA: 150 ppm 8 hours. ethylbenzene Safe Work Australia (Australia, 12/2019). STEL: 543 mg/m<sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 434 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. 2-methoxy-1-methylethyl acetate Safe Work Australia (Australia, 12/2019).

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## Section 8. Exposure controls and personal protection

Absorbed through skin.

STEL: 548 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 274 mg/m³ 8 hours. TWA: 50 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.

For products that are sprayed, where practicable use a spray booth designed and maintained in accordance with AS/ NZS 4114.

**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

Skin protection

Hand protection

- : Chemical splash goggles.
- : 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.

Gloves
Body protection

- : butyl rubber
- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

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

**Respiratory protection** 

: Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Restrictions on use

: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

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## Section 8. Exposure controls and personal protection

References: Eye protectors should conform to AS/NZS 1336 and AS/NZS 1337. Chemical-resistant gloves should conform to AS/NZS 2161.1. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716. Occupational footwear should conform to AS/NZS 2210.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Colour: Not available.Odour: Not available.Odour threshold: Not available.

pH : Not applicable.
Melting point : Not available.
Boiling point : 126°C (258.8°F)

Flash point : Closed cup: 25°C (77°F)

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapour pressure : Not available.
Vapour density : Not available.

Relative density : 0.99 Bulk Density (g/cm³) : 0.991

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Viscosity: 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 : Stable under recommended storage and handling conditions (see Section 7). In a

fire, hazardous decomposition products may be produced.

**Incompatible materials**: Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols,

water. Uncontrolled exothermic reactions occur with amines and alcohols.

Hazardous decomposition

products

: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen

cyanide

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## **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name  | Result   | Species              | Dose                               | Exposure     |
|--|--|----------------------|------------------------------------|--------------|
| <b>⊬</b> examethylene  | LD50 Dermal  | Rabbit               | >2000 mg/kg                        | -            |
| diisocyanate, oligomers  |  |                      |                                    |              |
|  | LD50 Oral  | Rat - Female         | >2500 mg/kg                        | -            |
| xylene   | LD50 Dermal  | Rabbit               | 1.7 g/kg                           | -            |
| •  | LD50 Oral  | Rat                  | 4.3 g/kg                           | -            |
| n-butyl acetate  | LC50 Inhalation Vapour                             | Rat                  | >21.1 mg/l                         | 4 hours      |
| •  | LC50 Inhalation Vapour                             | Rat                  | 2000 ppm                           | 4 hours      |
|  | LD50 Dermal  | Rabbit               | >17600 mg/kg                       | -            |
|  | LD50 Oral  | Rat                  | 10.768 g/kg                        | -            |
| 3-Isocyanatomethyl-<br>3,5,5-trimethylcyclohexyl<br>isocyanate, oligomers<br>(isocyanurate type) | LC50 Inhalation Dusts and mists                    | Rat                  | >5010 mg/m³                        | 4 hours      |
| , , , , ,  | LD50 Oral  | Rat                  | >14 g/kg                           | _            |
| ethylbenzene   | LC50 Inhalation Vapour<br>LD50 Dermal<br>LD50 Oral | Rat<br>Rabbit<br>Rat | 17.8 mg/l<br>17.8 g/kg<br>3.5 g/kg | 4 hours<br>- |
| 2-methoxy-1-methylethyl acetate  | LC50 Inhalation Vapour                             | Rat                  | 30 mg/l                            | 4 hours      |
|  | LD50 Dermal<br>LD50 Oral                           | Rabbit<br>Rat        | >5 g/kg<br>6190 mg/kg              | -            |

# Conclusion/Summary

: There are no data available on the mixture itself.

### <u>Irritation/Corrosion</u>

| Product/ingredient name | Result                   | Species | Score | Exposure     | Observation |
|-------------------------|--------------------------|---------|-------|--------------|-------------|
| kylene                  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 | -           |
|                         |                          |         |       | mg           |             |

#### **Conclusion/Summary**

Skin: There are no data available on the mixture itself.Eyes: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

### **Sensitisation**

| Product/ingredient name  | Route of exposure | Species    | Result      |
|--|-------------------|------------|-------------|
| 3-Isocyanatomethyl-<br>3,5,5-trimethylcyclohexyl<br>isocyanate, oligomers<br>(isocyanurate type) | skin              | Guinea pig | Sensitising |

#### **Conclusion/Summary**

Skin: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

**Mutagenicity** 

Not available.

**Conclusion/Summary** 

Conclusion/Summary

Carcinogenicity

Not available.

: There are no data available on the mixture itself.

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### Section 11. Toxicological information

**Conclusion/Summary** 

: There are no data available on the mixture itself.

**Reproductive toxicity** 

Not available.

**Conclusion/Summary** 

: There are no data available on the mixture itself.

**Teratogenicity** 

Not available.

Conclusion/Summary : There are no data available on the mixture itself.

#### Specific target organ toxicity (single exposure)

| Name   | Category   | Route of exposure | Target organs                |
|--|------------|-------------------|------------------------------|
| Hexamethylene diisocyanate, oligomers  | Category 3 | -                 | Respiratory tract irritation |
| xylene   | Category 3 | -                 | Respiratory tract irritation |
| n-butyl acetate  | Category 3 | -                 | Narcotic effects             |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type) | Category 3 | -                 | Respiratory tract irritation |
| 2-methoxy-1-methylethyl acetate  | Category 3 | -                 | Narcotic effects             |

#### Specific target organ toxicity (repeated exposure)

| Name                 | 3.5        | Route of exposure | Target organs |
|----------------------|------------|-------------------|---------------|
| <b>e</b> thylbenzene | Category 2 | -                 | -             |

#### **Aspiration hazard**

| Name | Result   |
|------|--|
|      | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

Information on likely routes : Not available.

of exposure

Potential acute health effects

**Eve contact** : Causes serious eye irritation.

Inhalation : Harmful if inhaled. May cause respiratory irritation.

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

Ingestion : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

: Adverse symptoms may include the following: Inhalation

respiratory tract irritation

coughing

**Skin contact** : Adverse symptoms may include the following:

> irritation redness

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## **Section 11. Toxicological information**

Ingestion : No specific data.

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

**Conclusion/Summary** 

: There are no data available on the mixture itself. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatique, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. 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.

**Short term exposure** 

**Potential immediate** 

Potential delayed effects

effects

: There are no data available on the mixture itself.

There are no data available on the mixture itself.

**Long term exposure** 

Potential immediate

effects

: There are no data available on the mixture itself.

**Potential delayed effects**: There are no data available on the mixture itself.

Potential chronic health effects

Not available.

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

to very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 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/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|---|------------------|-------------------|--------------------------------|-----------------------------------|--|
| U-625 POLYTHANE HARDENER - FAST Hexamethylene diisocyanate, oligomers | N/A              | 5822.6            | N/A                            | 33.9                              | 4.6  |
|   | N/A              | N/A               | N/A                            | N/A                               | 1.5  |
| xylene n-butyl acetate ethylbenzene                                   | 4300             | 1700              | N/A                            | 11                                | N/A  |
|   | 10768            | N/A               | N/A                            | N/A                               | N/A  |
|   | 3500             | 17800             | N/A                            | 17.8                              | N/A  |
| 2-methoxy-1-methylethyl acetate                                       | 6190             | N/A               | N/A                            | 30                                | N/A  |

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# **Section 11. Toxicological information**

# Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name               | Result                          | Species                         | Exposure |
|---------------------------------------|---------------------------------|---------------------------------|----------|
| Mexamethylene diisocyanate, oligomers | 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 (zebra fish) | 96 hours |
| n-butyl acetate                       | Acute LC50 18 mg/l              | Fish                            | 96 hours |
| ethylbenzene                          | Acute EC50 1.8 mg/l Fresh water | Daphnia                         | 48 hours |
| •                                     | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia    | -        |
| 2-methoxy-1-methylethyl acetate       | Acute LC50 134 mg/l Fresh water | Fish - Oncorhynchus mykiss      | 96 hours |

#### Persistence and degradability

| Product/ingredient name                 | Test                  | Result   | Dose | Inoculum |
|---|-----------------------|--|------|----------|
| n-butyl acetate                         | TEPA and<br>OECD 301D | 83 % - Readily - 28 days                             | -    | -        |
| ethylbenzene<br>2-methoxy-1-methylethyl | -                     | 79 % - Readily - 10 days<br>83 % - Readily - 28 days | -    | -        |
| acetate                                 |                       |  |      |          |

| Product/ingredient name     | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------|-------------------|------------|------------------|
| Hexamethylene diisocyanate, | -                 | -          | Not readily      |
| oligomers                   |                   |            |                  |
| xylene                      | -                 | -          | Readily          |
| n-butyl acetate             | -                 | -          | Readily          |
| ethylbenzene                | -                 | -          | Readily          |
| 2-methoxy-1-methylethyl     | -                 | -          | Readily          |
| acetate                     |                   |            |                  |

#### **Bioaccumulative potential**

| Product/ingredient name                      | LogPow     | BCF         | Potential  |
|--|------------|-------------|------------|
| Fexamethylene diisocyanate, oligomers        | 5.54       | 3.2         | low        |
| xylene<br>n-butyl acetate                    | 2.3        | 7.4 to 18.5 | low<br>low |
| ethylbenzene 2-methoxy-1-methylethyl acetate | 3.6<br>1.2 | 79.43       | low<br>low |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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

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## 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             | IMDG            | IATA            |
|-----------------------------|-----------------|-----------------|-----------------|
| UN number                   | UN1263          | UN1263          | UN1263          |
| UN proper shipping name     | PAINT           | PAINT           | PAINT           |
| Transport hazard class (es) | 3               | 3               | 3               |
| Packing group               | III             | III             | III             |
| Environmental hazards       | No.             | No.             | No.             |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. |

#### Additional information

: None identified. **ADG** 

•3Y **Hazchem code** 

**IMDG** : None identified. IATA : None identified.

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 applicable.

to IMO instruments

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### **Section 15. Regulatory information**

Standard for the Uniform Scheduling of Medicines and Poisons

SUSMP : 6

**Model Work Health and Safety Regulations - Scheduled Substances** 

No listed substance

Australia inventory (AIIC) : All components are listed or exempted.

New Zealand (NZIoC) : All components are listed or exempted.

**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.

# Section 16. Any other relevant information

**History** 

Date of issue/Date of

revision

: 14 June 2022

Date of previous issue : 9/13/2021

Prepared by : EHS

**Key to abbreviations** : ADG = Australian Dangerous Goods

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)
NOHSC = National Occupational Health and Safety Commission
SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

References : Not available.

▼ Indicates information that has changed from previously issued version.

**Notice to reader** 

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## Section 16. Any other relevant information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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