SAFETY DATA SHEET

Date of issue : 10 February 2025

Version : 8



Section 1. Identification

Product code : 980-49127/1L

Product name : AUTOTHANE MS HARDENER

Other means of

identification

: 30005833

Product type : Liquid.

Recommended use and restrictions

Use of the substance/

mixture

: Coating.

Uses advised against

: Not applicable.

Supplier's details

: PPG INDUSTRIES NEW ZEALAND LTD 5 MONAHAN ROAD, MT WELLINGTON,

AUCKLAND www.ppgnz.co.nz

Telephone: 0800 990 093; 09 573 1620

Emergency telephone number (with hours of

operation)

: New Zealand 0800 000 096 (24 hours) / Australia 1800 883 254 (24 hours)

For international shipping emergencies: 1-412-391-1618

Section 2. Hazards identification

HSNO Classification : FLAN

: FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (inhalation) - Category 4

EYE IRRITATION - Category 2

RESPIRATORY SENSITISATION - Category 1

SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 2

REPRODUCTIVE TOXICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Symbol







GHS label elements

Signal word : Danger

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Product name AUTOTHANE MS HARDENER

Section 2. Hazards identification

Hazard statements

: Mammable liquid and vapour.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour.

Response

: F exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. 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

: Not applicable.

Disposal

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

and international regulations.

result in classification

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

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 and has been classified according to the Hazardous Substances (Classifications) Notice 2017.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Land Transport Rule: Dangerous Goods 2005.

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

: Mixture : 30005833

CAS number/other identifiers

Product code : 980-49127/1L

Hazardous ingredients	%	CAS number
Fexamethylene diisocyanate, oligomers	30 - 60	28182-81-2
n-butyl acetate	10 - <30	123-86-4
Solvent naphtha (petroleum), light aromatic	1 - <10	64742-95-6
xylene	1 - <10	1330-20-7
1,2,4-trimethylbenzene	1 - <10	95-63-6
mesitylene	1 - <10	108-67-8
ethylbenzene	1 - <10	100-41-4
cumene	1 - <10	98-82-8

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Section 3. Composition/information on ingredients

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.

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.

Inhalation : Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Skin contact : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic

skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eyes: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced foetal weight increase in foetal deaths skeletal malformations

Skin: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

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

Specific treatments: Not available.

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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.

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

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

Not suitable

: 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon oxides nitrogen oxides

Cyanate and isocyanate.

hydrogen cyanide

Special precautions for firefighters

: 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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: 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). Water polluting material. May be harmful to the environment if released in large quantities.

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.

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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.

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

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. 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.

Conditions for safe storage, including any incompatibilities

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. CO₂ will be formed, which, in closed containers, could result in pressurisation.

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Section 8. Exposure controls/personal protection

Control parameters

Exposure limits
HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023) [isocyanates, all] Skin sensitiser, Inhalation sensitiser. WES-TWA 8 hours: 0.02 mg/m³ (measured as -NCO). Form: The Inhalable Fraction and Vapour (ifv) notation is used when a material exerts sufficient vapour pressuren such that it may be present in both particle and vapour phases, with each contributing to a significant portion of exposure WES-STEL 15 minutes: 0.07 mg/m³ (measured as -NCO). Form: The Inhalable Fraction and Vapour (ifv) notation is used when a material exerts sufficient vapour pressuren such that it may be present in both particle and vapour phases, with each contributing to a significant portion of exposure
HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023) WES-TWA 8 hours: 150 ppm. WES-TWA 8 hours: 713 mg/m³. WES-STEL 15 minutes: 950 mg/m³.
WES-STEL 15 minutes: 200 ppm. HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023) [xylene (o-, m-, p-isomers)] Ototoxicant. WES-TWA 8 hours: 50 ppm.
WES-TWA 8 hours: 217 mg/m³. HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023) [Trimethyl benzene] WES-TWA 8 hours: 25 ppm.
WES-TWA 8 hours: 123 mg/m³. HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023) [Trimethyl benzene] WES-TWA 8 hours: 25 ppm.
WES-TWA 8 hours: 123 mg/m³. HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023) Absorbed through skin, Ototoxicant. WES-TWA 8 hours: 20 ppm. WES-TWA 8 hours: 88 mg/m³.

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Section 8. Exposure controls/personal protection

cumene

WES-STEL 15 minutes: 176 mg/m³. WES-STEL 15 minutes: 40 ppm. HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023) Absorbed through skin.

WES-TWA 8 hours: 25 ppm. WES-TWA 8 hours: 125 mg/m³. WES-STEL 15 minutes: 75 ppm. WES-STEL 15 minutes: 375 mg/m³.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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.

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.

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.

Gloves

: butyl rubber

Eye protection

: Chemical splash goggles.

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.

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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Product name AUTOTHANE MS HARDENER

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.
Colour : Clear.

Odour : Mydrocarbon.

Odour threshold : Not available.

pH : Not applicable.

Melting point : Not available.

Boiling point : 126°C (258.8°F)

Flash point : Closed cup: 27°C (80.6°F)

Flammability (solid, gas)
Lower and upper explosive (flammable) limits

Not available.Not available.

Vapour pressure : Not available.

Relative density : 0.97

Solubility(ies) : Media Result

cold water Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : Decomposition temperature :

Not available.Not available.

Viscosity

: Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Section 10. Stability and reactivity

Stability
Possibility of hazardous

reactions

: Stable under recommended storage and handling conditions (see Section 7).

: 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. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts slowly with water, resulting in the production of carbon dioxide. In closed containers, pressure build-up could result in distortion, expansion and, in extreme

cases, bursting of the container.

Incompatible materials : Reactive or incompatible with the following materials:

oxidising materials strong acids strong alkalis

Hazardous decomposition

products

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

cyanide

Hazardous polymerisation

: Under normal conditions of storage and use, hazardous polymerisation will not

occur.

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Section 11. Toxicological information

Information on likely routes of exposure

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Inhalation : Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Ingestion : No known significant effects or critical hazards.

Skin contact : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic

skin reaction.

Eye contact : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced foetal weight increase in foetal deaths skeletal malformations

Eye contact: Adverse symptoms may include the following:

pain or irritation

watering redness

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

Acute toxicity

Product/ingredient name	Result	Dose / Exposure
⊬ examethylene	Rat - Female - Oral - LD50	>2500 mg/kg
diisocyanate, oligomers		
, ,	Rabbit - Dermal - LD50	>2000 mg/kg
n-butyl acetate	Rabbit - Dermal - LD50	>17600 mg/kg
•	Rat - Oral - LD50	10.768 g/kg
	Rat - Inhalation - LC50 Vapour	2000 ppm [4 hours]
	Rat - Inhalation - LC50 Vapour	>21.1 mg/l [4 hours]
Solvent naphtha (petroleum),	Rat - Oral - LD50	8400 mg/kg
light aromatic		
	Rabbit - Dermal - LD50	3.48 g/kg
xylene	Rat - Oral - LD50	4.3 g/kg
_	Rabbit - Dermal - LD50	1.7 g/kg
1,2,4-trimethylbenzene	Rat - Oral - LD50	5 g/kg
•	Rat - Inhalation - LC50 Vapour	18000 mg/m³ [4 hours]
mesitylene	Rat - Oral - LD50	5000 mg/kg
,	Rat - Inhalation - LC50 Vapour	24000 mg/m³ [4 hours]
ethylbenzene	Rat - Oral - LD50	3.5 g/kg
-	Rabbit - Dermal - LD50	17.8 g/kg

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Section 11. Toxicological information

cumene	Rat - Inhalation - LC50 Vapour Rabbit - Dermal - LD50	17.8 mg/l [4 hours] 12.3 g/kg	
	Rat - Oral - LD50 Rat - Inhalation - LC50 Vapour	2260 mg/kg 39000 mg/m³ [4 hours]	

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result
x ylene	Rabbit - Skin - Moderate irritant Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours

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

Not available.

Conclusion/Summary

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

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Prolonged

or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

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

to very low levels.

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

to very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

Chronic toxicity

Not available.

Carcinogenicity

Not available.

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

Mutagenicity

Not available.

Conclusion/Summary

: There are no data available on the mixture itself.

Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself.

Specific target organ toxicity

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Section 11. Toxicological information

	Category	Route of exposure	Target organs
x ylene	Category 2	-	-
1,2,4-trimethylbenzene	Category 2	-	-
ethylbenzene	Category 2	-	-
cumene	Category 2	-	-

Aspiration hazard

Solvent naphtha (petroleum), light aromatic ethylbenzene cumene

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Ø ral	4736.82 mg/kg
Dermal	17955.98 mg/kg
Inhalation (vapours)	25.37 mg/l
Inhalation (dusts and mists)	3.09 mg/l

Other information

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. 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. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. Avoid contact with skin and clothing.

Section 12. Ecological information

Ecotoxicity

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

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Dose / Exposure
Fexamethylene diisocyanate, oligomers	Acute - LC50	Fish - Danio rerio (zebra fish)	>100 mg/l [96 hours]
	Acute - EC50	Daphnia - <i>daphnia magna</i>	>100 mg/l [48 hours]
	Acute - EC50	Algae - scenedesmus subspicatus	>1000 mg/l [72 hours]
n-butyl acetate	Acute - LC50	Fish	18 mg/l [96 hours]
Solvent naphtha (petroleum), light aromatic	Acute - LC50	Fish	8.2 mg/l [96 hours]
ethylbenzene	Acute - EC50 - Fresh water	Daphnia	1.8 mg/l [48 hours]

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Section 12. Ecological information

Chronic - NOEC - Fresh water Daphnia - Cerioda	aphnia dubia 1 mg/l
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Persistence/degradability

Product/ingredient name	Test	Result	Dose / Inoculum
r-butyl acetate	TEPA and OECD 301D	83% [28 days] - Readily	-
ethylbenzene	-	79% [10 days] - Readily	-
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fexamethylene diisocyanate, oligomers	-	-	Not readily
n-butyl acetate	-	-	Readily
xylene	-	-	Readily
ethylbenzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
✓examethylene diisocyanate, oligomers	5.54	3.2	Low
n-butyl acetate	2.3	-	Low
xylene	3.12	7.4 to 18.5	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
mesitylene	3.42	186.21	Low
ethylbenzene	3.6	79.43	Low
cumene	3.55	35.48	Low

Mobility in soil

Soil/water partition coefficient

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Do not allow to enter drains or watercourses.

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

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Section 13. Disposal considerations

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.

Not suitable: : Do not allow to enter drains or watercourses.

The classification of the product may meet the criteria for a hazardous waste. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	NZ	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
	RAMMALE AND A STATE OF THE STAT		
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

NZ : None identified.

Hazchem code : •3Y

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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Product name AUTOTHANE MS HARDENER

Section 15. Regulatory information

New Zealand Inventory of Chemicals (NZIoC)

: All components are listed or exempted.

HSNO Approval Number

: HSR002669 Flammable, Toxic [6.7]

Emergency Management

Regulations

: Level 1: Labelling required when 1L is present in a workplace.

Level 2: MSDS required when any amount is present in a workplace. At least 2 x 4.5

kg powder fire extinguishers required when 500L is present in a workplace.

Level 3: Emergency Response Plans and Secondary Containment required when

1000L is stored.

Flammable Signage required when 1000L is present in a workplace. Toxic Signage required when 10000L is present in a workplace.

Classes 1 to 5 Control Regulations

: Hazardous Atmosphere Zones required for quantities greater than:

100L (closed), 25L (decanting), 5L (open occasionally), 1L (open continuously). Hazardous Substances Location Certificate required for quantities greater than: 1500L (containers up to 5L), 500L (containers >5L), 250L (open containers).

Approved Handler

: Not applicable.

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. Other information

: 10 February 2025 **Date of issue**

Date of previous issue : 5/6/2022

Indicates information that has changed from previously issued version.

: STEL = Short Term Exposure Limit Key to abbreviations

> TWA = Time-Weighted Average WES = Work Exposure Standard

References : Not available.

Organisation that prepared

the SDS

: EHS

Disclaimer

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Product name AUTOTHANE MS HARDENER

Section 16. Other 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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