

SAFETY DATA SHEET

FixIt Glue – FMP200

1. Identification

1.1 Identification of the substance or preparation:

Product Name: FixIt Glue – FMP200

1.2 Use of substance or preparation:

Timber Adhesive

1.3 Company undertaking identification:

Fixtech Pty Ltd – Fixtech Marine Solutions
 Unit 1/20
 Molendinar, Queensland 4214
 Tel: +61 7 5530 1099
 Fax: +61 7 5530 1322
 Email: info@fixtech.com.au

1.4 Emergency telephone:

+61 7 5530 1099

2. Composition/information on ingredients

Chemical Characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Hazardous components:

9016-87-9	4,4' methylenediphenyl diisocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. (inhalation) 3, H331; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	>25%
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Additional information:

Note J: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1% w/w benzene (EINECS no. 200-753-7). This note applies only to certain complex coal- and oil- derived substances in Annex I. (CAS No. 90989-38-1).

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3. Hazardous identification

Hazardous Nature:

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Health Hazard

Resp. Sens1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc.2	H351 Suspected of causing cancer.
STOT RE 1	H372 Causes damage to organs through prolonged or repeated exposure.



Acute Tox.	H332 Harmful if inhaled
Skin Irrit.2	H315 Causes skin irritation.
Eye Irrit. 2A	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction
STOT SE 3	H335 May cause respiratory irritation

Signal Word Danger

Hazard Statements

H332	Harmful if inhaled
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction. H351 Suspected of causing cancer.
H351	Suspected of causing cancer
H335	May cause respiratory irritation.

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H372 Causes damage to organs through prolonged or repeated exposure

Precautionary Statements

- P260** Do not breathe dust/fume/gas/mist/vapours/spray.
P284 Wear respiratory protection.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using product
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P342+P311 If experiencing respiratory symptoms: Call a Poison Center/Doctor
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P312 Call a POISON CENTER/doctor if you feel unwell.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national regulations.

4. First aid measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

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In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Do not apply neutralising agents. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralising agents. Seek medical attention if symptoms occur

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

Symptoms Caused by Exposure:

Inhalation: Toxic if inhaled. May cause respiratory irritation, coughing and runny nose. Exposure to high concentrations may cause CNS depression, dizziness, headache, narcosis and unconsciousness

Skin Contact: Causes skin irritation and tingling.

Eye Contact: Causes irritation of the eye tissue.

Ingestion: Ingestion of large quantities may cause CNS depression, enlargement /affection of the liver and symptoms similar to inhalation.

5. Fire fighting measures

Suitable Extinguishing Media: Carbon dioxide, BC powder, polyvalent foam or water spray.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and nitrous compounds. Hydrogen cyanide is released on heating.

Product is not flammable or combustible. Reacts violently with (some) acids/bases. Heating increases the fire hazard.

Use water spray to cool fire exposed containers. Do not move the load if exposed to heat. Dilute toxic gases with water spray.

Special Protective Equipment and Precautions for Fire Fighters:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

6. Accidental release measures

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Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved self-contained breathing apparatus in the pressure demand mode or a positive pressure air-supplied respirator, solvent resistant gloves, protective clothing, apron and boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and scoop solid spill into closing containers. Containers must not be sealed hermetically. Provide adequate ventilation. Decontaminate spill area with acetone.

Note: See section 8 for Personal Protective Equipment.

7. Handling and storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours/dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from heat. Keep away from strong oxidising agents, acids, alkalis, alcohols, amines and water. Suitable packaging material is polyethylene.

8. Exposure controls/personal protection

Exposure Standards:

9016-87-9 Isocyanic acid, polymethylenepolyphenylene ester

NES	STEL: 0.07 mg/m ³
	TWA: 0.02 mg/m ³
	Sen, as-NCO

Engineering Controls:

Total enclosure with good general ventilation is recommended when isocyanates are used.

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If total enclosure is not possible, local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits. Where local exhaust ventilation is installed, exhaust vapours should not be vented to the exterior in such a manner as to create a hazard.

Respiratory Protection:

Respiratory protection must be carefully selected based on information available through the risk assessment process. As a guide, positive pressure air supplied respirators or self-contained breathing apparatus will be required where materials containing isocyanates are sprayed. The concentration of isocyanate present in the air will determine the level of protection required in other circumstances. The respiratory protection selected must be capable of reducing exposure below the occupational exposure standard. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Teflon, viton, nitrile rubber and some PVA gloves.. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered. Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9. Physical and Chemical Properties

General information:

- Physical Form:	Liquid
- Colour:	Brown
- Odour:	Solvent like
- Density:	Ca. 1.1 g/cm ³
- Viscosity:	25 s
- Flash point:	>165°C
- Vapour density:	>2
- Solubility in water:	Insoluble
- VOC	7%

Note: the above information is not intended for use in preparing product specifications

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10. Stability and reactivity

Possibility of Hazardous Reactions:

Reacts violently with (some) acids/bases. Heating increases the fire hazard.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat.

Incompatible Materials: Strong oxidizing and reducing agents, acids, alkalis, alcohol, amines and water.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrous vapours.

11. Toxicological information

Toxicity:

LD50/LC50 Values Relevant for Classification:

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral	LD ₅₀	3523 - >4000 mg/kg (rat)
Dermal	LD ₅₀	>4200 mg/kg (rabbit)
Inhalation	LC ₅₀ /4 HR	> 29 mg/L (rat)

9016-87-9 Isocyanic acid, polymethylenepolyphenylene ester

LD₅₀ (Oral) >10000 mg/kg (rat)

LD₅₀ (Dermal) >5000 mg/kg (rabbit)

LD₅₀/4 h 10 - 20 mg/L (rat)

Acute Health Effects

Inhalation: Toxic if inhaled. May cause respiratory irritation, coughing and runny nose. Exposure to high concentrations may cause CNS depression, dizziness, headache, narcosis and unconsciousness.

Skin: Causes skin irritation and tingling.

Eye: Causes serious eye irritation.

Ingestion: Ingestion of large quantities may cause CNS depression, enlargement /affection of the liver and symptoms similar to inhalation.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation:

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May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Suspected of causing cancer.

Isocyanic acid, polymethylenepolyphenylene ester is classified by Safe Work Australia as Carcinogen Category 3.

Polymethylene polyphenyl isocyanate is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause respiratory irritation.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

Repeated or prolonged skin exposure may skin rash and inflammation. Inhalation of high vapour concentrations or prolonged exposure may cause feeling of weakness, coughing, respiratory difficulties and possible inflammation of the respiratory tract.

Existing Conditions Aggravated by Exposure: No information available

12. Effects on the environment

Ecotoxicity: No information available

Aquatic toxicity:	
90989-38-1 Aromatic hydrocarbons, C8	
EC ₅₀ /48 Hr	3.82 mg/l (daphnia)
LC ₅₀ /96 Hr	2.6 mg/l (rainbow trout)
9016-87-9 Isocyanic acid, polymethylenepolyphenylene ester	
EC ₅₀ /96 Hr	> 100 mg/l (activated sludge inhibition)

Persistence and Degradability: Contains non readily biodegradable component(s)

Bioaccumulative Potential: Does not contain bio accumulative component(s)

Mobility in Soil: Contains component(s) with potential for mobility in soil

Other adverse effects:

Global warming potential (GWP)

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None of the known components is included in the list of substances which may contribute to the greenhouse effect.

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer.

Aromatic hydrocarbons, C8 is a ground water pollutant

13. Disposal considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14. Transport information

UN Number	Not regulated
Proper Shipping Name	Not regulated
Dangerous Goods Class	Not regulated
Packing Group:	Not regulated
Marine pollutant:	No

15. Regulatory information

Australian Inventory of Chemical Substances:

90989-38-1	Aromatic hydrocarbons, C8
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 5

16. Other information

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Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Tox. (Inhalation) 3: Acute toxicity, Hazard Category 3

Acute Tox. (Inhalation) 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Resp. Sens. 1: Respiratory sensitisation, Hazard Category 1

Skin Sens. 1: Skin sensitisation, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

This data completes the technical datasheet for use, but does not replace it. The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements.

The data does not signify any warranty with regards to the products properties.

Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. Fixtech does not guarantee the accuracy or exhaustiveness of the information provided. All intellectual property rights to this sheet are the property of Fixtech and its distribution and reproduction are limited.

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The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates on to the specific material designated and may not be valid for such material used in combination with other material or in any process, unless specified in the text.