

SAFETY DATA SHEET TAMREZ 220 PART B

SECTION 1: Identification: Product identifier and chemical identity

Product identifier

Product name TAMREZ 220 PART B

Product No. 100053613 -61

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

Application Epoxy Binder and Injection Resin

Details of the supplier of the safety data sheet

Supplier Normet Asia-Pacific Pty Ltd

10 Ashwin Parade Torrensville, SA 5031 Australia

+61 (0)8 8152 7700 +61 (0)8 8152 0667 SDS@NORMET.COM

Emergency telephone number

Emergency telephone 1-800-557346 (24 HOURS)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Label elements

Hazard pictograms







Signal word DANGER

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements P260 Do not breathe vapour/ spray.

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

Contains FATTY ACIDS TALL OIL REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE,

3,6,9-triazaundecamethylenediamine

Other hazards

HSNO Classification

SECTION 3: Composition and information on ingredients

Mixtures

FATTY ACIDS TALL OIL REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE

60-100%

CAS number: 68953-36-6

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

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3,6,9-triazaundecamethylenediamine

10-30%

CAS number: 112-57-2

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

Description of first aid measures

General information Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Get medical attention. Treat symptomatically.

Inhalation IF INHALED: Get medical attention immediately. Move affected person to fresh air and keep

warm and at rest in a position comfortable for breathing. Do not induce vomiting.

Ingestion IF SWALLOWED: Get medical attention immediately. If throat irritation or coughing persists,

proceed as follows. Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Stop if the affected person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit

does not enter the lungs.

Skin Contact IF ON SKIN (or hair): Rinse immediately with plenty of water. Continue to rinse for at least 10

minutes. Get medical attention if irritation persists after washing. Remove contaminated

clothing.

Eye contact IF IN EYES: Remove any contact lenses and open eyelids wide apart. Continue to rinse for at

least 15 minutes and get medical attention. Get medical attention if irritation persists after

washing.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information Treat symptomatically. See Section 11 for additional information on health hazards.

Inhalation Irritating.

Ingestion May cause stomach pain or vomiting. May cause irritation. Gastrointestinal symptoms,

including upset stomach.

Skin contact May cause skin irritation.

Eye contact Causes skin and eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

Specific treatments Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

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foam, carbon dioxide or dry powder.

Special hazards arising from the substance or mixture

Specific hazards The product is not flammable. Irritating gases or vapours.

Hazardous combustion

products

Harmful gases or vapours.

Advice for firefighters

Protective actions during

firefighting

No action shall be taken without appropriate training or involving any personal risk. Stop leak if safe to do so. If leakage cannot be stopped, evacuate area. Move containers from fire area

if it can be done without risk.

Special protective equipment

for firefighters

Use air-supplied respirator, gloves and protective goggles.

Hazchem Code 2X

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions No action shall be taken without appropriate training or inv

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Follow precautions for safe handling described in

this safety data sheet.

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training.

Evaluate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the

Environmental Agency or other appropriate regulatory body.

Methods and material for containment and cleaning up

Methods for cleaning up If leakage cannot be stopped, evacuate area. Move containers from spillage area. Large

Spillages: Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. Small Spillages: Absorb small quantities with paper towels and evaporate in a safe place. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal

Authority.

Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13. See Section 11

for additional information on health hazards. See Section 12 for additional information on

ecological hazards.

SECTION 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

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Usage precautions For professional users only. Do not handle until all safety precautions have been read and

understood. Use only in well-ventilated areas. Protect from moisture. Keep container dry. Container must be kept tightly closed when not in use. Do not eat, drink or smoke when using

this product.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Provide eyewash station. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that

becomes contaminated.

Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 30°C. Store in tightly-closed, original container in a

dry, cool and well-ventilated place. Do not store near heat sources or expose to high

temperatures. Store away from the following materials: Acids. Alkalis.

Storage class Chemical storage.

Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

SECTION 8: Exposure controls and personal protection

Exposure controls

Protective equipment







Appropriate engineering

controls

This product is not to be used under conditions of poor ventilation. In case of insufficient

ventilation, wear suitable respiratory equipment.

Personal protection Use protective clothing, hand gloves and goggles.

Eye/face protection Use safety glasses with side shields that are consistent with EN 166, or local equivalent, are

recommended.

Hand protection To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard

AS/NZS 2161. It is recommended that gloves are made of the following material: Nitrile

rubber. Butyl rubber.

Other skin and body

protection

Wear appropriate clothing to prevent skin contamination.

Hygiene measures Wash hands thoroughly after handling. Promptly remove any clothing that becomes

contaminated. Do not eat, drink or smoke when using this product.

Respiratory protection Combination filter, type A2/P3.

Environmental exposure

controls

Keep container tightly sealed when not in use. Residues and empty containers should be

taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance Coloured liquid.

Colour Amber.

Odour Amine.

Odour threshold Not determined.

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pH Not determined.

Melting point Not applicable.

Initial boiling point and range Not determined.

Flash point Not determined.

Evaporation rate Not determined.

Evaporation factor Not determined.

Flammability (solid, gas) Not applicable.

Flammability Limit - Lower(%) Not applicable.

Other flammability Not applicable.

Vapour pressure Not determined.

Vapour density Not determined.

Relative density 0.94 - 1.0

Bulk density Not applicable.

Solubility(ies) Not determined.

Partition coefficient Not determined.

Auto-ignition temperature Not determined.

Decomposition Temperature Not determined.

Viscosity 300 - 500 mPa s @ 20°C

Explosive properties Not applicable.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties Not applicable.

SECTION 10: Stability and reactivity

Reactivity Reacts with water and moisture in the air

Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

The following materials may react with the product: Water, moisture.

Heating may generate the following products: Carbon dioxide (CO2). Carbon monoxide (CO).

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

Materials to avoid Avoid contact with the following materials: Strong alkalis. Alcohols.

Hazardous decomposition

products

Nitrous gases (NOx).

SECTION 11: Toxicological information

Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

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Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Notes (dermal LD50) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 11,000.0

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro

Not available.

Genotoxicity - in vivo

Not available.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation May cause respiratory tract irritation.

Ingestion May cause irritation.

Skin Contact

Causes severe skin burns and eye damage.

Eye contact

Causes severe skin burns and eye damage.

Toxicological information on ingredients.

FATTY ACIDS TALL OIL REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns.

Serious eye damage/irritation

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Serious eye damage/irritation

Causes serious eye damage.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

3,6,9-triazaundecamethylenediamine

Acute toxicity - oral

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD50) Harmful in contact with skin.

ATE dermal (mg/kg) 1,100.0

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns.

Serious eye damage/irritation

Serious eye

Causes serious eye damage.

damage/irritation

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

SECTION 12: Ecological information

Ecotoxicity The product contains a substance which is very toxic to aquatic organisms and which may

cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients.

FATTY ACIDS TALL OIL REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE

Ecotoxicity Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3,6,9-triazaundecamethylenediamine

Ecotoxicity Toxic to aquatic life with long lasting effects.

Toxicity No information available.

Acute aquatic toxicity

Acute toxicity - fish No specific test data are available.

Acute toxicity - aquatic

No specific test data are available.

invertebrates

Ecological information on ingredients.

FATTY ACIDS TALL OIL REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE

Acute aquatic toxicity

LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute) 1

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Chronic aquatic toxicity

M factor (Chronic) 1

Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Bioaccumulative potential

Bioaccumulative Potential No data available on bioaccumulation.

Partition coefficient Not determined.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Waste is classified as hazardous waste.

Disposal methods Dispose of contents/container in accordance with national regulations. Waste is classified as

hazardous waste.

SECTION 14: Transport information

UN number

(IMDG)

UN No. (ADG) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN proper shipping name

Proper shipping name (ADG) CORROSIVE LIQUID, N.O.S. (CONTAINS FATTY ACIDS TALL OIL REACTION PRODUCTS

WITH TETRAETHYLENEPENTAMINE, 3,6,9-triazaundecamethylenediamine)

Proper shipping name CORROSI

CORROSIVE LIQUID, N.O.S. (CONTAINS FATTY ACIDS TALL OIL REACTION PRODUCTS

WITH TETRAETHYLENEPENTAMINE, 3,6,9-triazaundecamethylenediamine)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (CONTAINS FATTY ACIDS TALL OIL REACTION PRODUCTS

WITH TETRAETHYLENEPENTAMINE, 3,6,9-triazaundecamethylenediamine)

Transport hazard class(es)

ADG class 8

ADG classification code C9

ADG label 8

IMDG class 8

ICAO class/division 8

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Transport labels



Packing group

ADG packing group IMDG packing group Ш ICAO packing group Ш

Environmental hazards

Environmentally hazardous substance/marine pollutant



Special precautions for user

EmS F-A, S-B

Hazchem Code 2X

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Guidance Isocyanates: Health hazards and precautionary measures EH16.

Workplace Exposure Limits EH40.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

SECTION 16: Any other relevant information

Abbreviations and acronyms ADG: Australian dangerous goods code used in the safety data sheet IATA: International air transport association.

IMDG: International maritime dangerous goods. LC₅₀: Lethal concentration to 50 % of a test population.

LD₅₀: Lethal dose to 50% of a test population (median lethal dose).

NOEC: No observed effect concentration. vPvB: Very persistent and very bioaccumulative. PBT: Persistent, bioaccumulative and toxic substance.

UN: United Nations.

CAS: Chemical abstracts service. GHS: Globally harmonized system.

General information Only trained personnel should use this material.

Revision date 6/10/2020

TAMREZ 220 PART B

Revision 2

SDS No. 6871

Hazard statements in full H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H400 Very toxic to aquatic life.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.