

SAFETY DATA SHEET

CJSA Epoxy Adhesive - Part A

SECTION 2. HAZARDS IDENTIFICATION (continued)

Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code (ADG 07) when transported by road or rail in;

- (a) packagings that do not incorporate a receptacle exceeding 500 Kg (L); or
- (b) IBCs.

SECTION 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Bisphenol-A epoxy resin Ingredients determined to be Non-Hazardous	25068-38-6	>80 % (w/w) Balance <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 100%

SECTION 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation

Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact

Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

PPE for First Aiders

Wear safety shoes, overalls, gloves, apron, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from an impervious material should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Refer to AS/NZS 2161. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician

Treat symptomatically. Effects may be delayed.

Aggravated medical conditions caused by exposure

Exposure may aggravate existing conditions including skin sensitisation and dermatitis.

SAFETY DATA SHEET

CJSA Epoxy Adhesive - Part A

SECTION 5. FIRE FIGHTING MEASURES

Hazchem Code	: •3Z
Suitable extinguishing media	: If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).
Specific hazards	: Non-combustible material.
Fire fighting further advice	: Not combustible, however following evaporation of aqueous component residual material can burn if ignited.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: 47

SECTION 7. HANDLING AND STORAGE

Handling

Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage

Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 9 Miscellaneous Dangerous Good as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison Schedule 6 (Poison) and must be stored, maintained and used in accordance with the relevant regulations.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

No value assigned for this specific material by Safe Work Australia.

Biological Limit Values

As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

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SAFETY DATA SHEET

CJSA Epoxy Adhesive - Part A

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

Engineering Measures

Natural ventilation should be adequate under normal use conditions.

Personal Protection Equipment

SAFETY SHOES, OVERALLS, GLOVES, APRON, SAFETY GLASSES, RESPIRATOR.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear safety shoes, overalls, gloves, apron, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from an impervious material should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Refer to AS/NZS 2161. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures

Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Colour	: Slight Yellow
Odour	: Slight Odour
Solubility	: Immiscible in Water at 20°C. Practically Insoluble
Specific Gravity (20 °C)	: Approx. 1.1
Density	: Approx. 1.1
Relative Vapour Density (air=1)	: N Av
Vapour Pressure (20 °C)	: 0.02 Pa at 20°C
Flash Point (°C)	: 192°C. Method: DIN 51758 (Pensky-Mertens Closed Cup)
Flammability Limits (%)	: N Av
Autoignition Temperature (°C)	: N Av
Melting Point/Range (°C)	: N Av
Boiling Point/Range (°C)	: >200°C
pH	: Approx. 7 at 20°C, 1:1 in water
Viscosity	: 1250 - 1600 mPa's at 25°C
Total VOC (g/Litre)	: N Av

(Typical values only - consult specification sheet)

N Av = Not available, N App = Not applicable

SAFETY DATA SHEET

CJSA Epoxy Adhesive - Part A

SECTION 10. STABILITY AND REACTIVITY

Chemical stability

This material is thermally stable when stored and used as directed.

Conditions to avoid

Sources of ignition i.e. flames. Heat i.e. direct sunlight. Contact with incompatible materials.

Incompatible materials

Strong oxidising agents.

Hazardous decomposition products

Oxides of carbon.

Hazardous reactions

Product as received will not present a dust explosion hazard. If cured material made using this product is to be machined or sanded, a dust explosion may be created. All dust generated should be removed as quickly as possible.

SECTION 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation

Material may be an irritant to mucous membranes and respiratory tract.

Skin contact

Contact with skin will result in irritation including itching, redness or rash. A skin sensitizer. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Ingestion

Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact

An eye irritant. Symptoms may include redness, pain, stinging, tearing or swelling.

Acute toxicity

Inhalation

This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist or LC50 > 20,000 ppm for gas

Skin contact

This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Ingestion

This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

SAFETY DATA SHEET

CJSA Epoxy Adhesive - Part A

SECTION 11. TOXICOLOGICAL INFORMATION (continued)

Corrosion/Irritancy

Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes).

Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

Sensitisation

Inhalation: this material has been classified as not a respiratory sensitiser.

Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).

Aspiration hazard

This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure)

This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity

This material has been classified as non-hazardous.

Carcinogenicity

This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation)

This material has been classified as a Category 1B Hazard.

Studies on pregnant animals have shown that the material contained within this product has caused developmental toxicity to their unborn. It is advised that as a precaution, pregnant women be prohibited from the use of this product.

Specific target organ toxicity (repeat exposure)

This material has been classified as non-hazardous.

SECTION 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard

This material has been classified as a Category Acute 1 Hazard. Acute toxicity estimate (based on ingredients): <1 mg/L

Long-term aquatic hazard

This material has been classified as a Category Chronic 1 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): <1 mg/L, where the substance is not rapidly degradable and/or BCF ≥ 500 and/or log Kow ≥ 4.

Ecotoxicity

No information available.

Persistence and degradability

Not readily biodegradable.

SAFETY DATA SHEET

CJSA Epoxy Adhesive - Part A

SECTION 12. ECOLOGICAL INFORMATION (continued)

Bioaccumulative potential

No information available.

Mobility:

Low mobility in soil. Avoid subsoil penetration, prevent from entering drains, do not contaminate surface water.

SECTION 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

SECTION 14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code (ADG 07) when transported by road or rail in;
 (c) packagings that do not incorporate a receptacle exceeding 500 Kg (L); or
 (d) IBCs.



UN No : 3082
 Dangerous Goods Class : 9
 Packing Group : III
 Hazchem Code : +3Z
 Emergency Response Guide No : 47

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIBUTYL PHTHALATE)

Segregation Dangerous Goods : Not to be loaded with explosives (Class 1). Note 1: Materials that are fire risks are incompatible with oxidising agents (Class 5.1) or organic peroxides (Class 5.2). Exemptions may apply.

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SAFETY DATA SHEET

CJSA Epoxy Adhesive - Part A

SECTION 15. REGULATORY INFORMATION (continued)

This material is subject to the following international agreements

Basel Convention (Hazardous Waste)

- Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives

This material/constituent(s) is covered by the following requirements

- The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth).
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

SECTION 16. OTHER INFORMATION

Reasons for issue : Revised
Format change

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice. Any use of this product, CJSA Epoxy Adhesive, in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

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