

SAFETY DATA SHEET

CJ-100 Adhesive Solvent-based Contact Adhesive

SECTION 1. SUPPLIER IDENTIFICATION

Name : **CJSA**
Address : Unit 2, 18 Farrow Circuit Seaford Rise,
South Australia 5169,
Australia.

The details and information stated within this SDS have been provided by the manufacturer.
Refer to www.cjsa.net.au to obtain the most recent SDS.

SECTION 1.1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade Name : CJ-100 Adhesive
Product use : Solvent-based adhesive
Manufacturer's Reference : 23/04/2018 - REV. 17

SECTION 2. HAZARDS IDENTIFICATION.

Substance/Mixture : Mixture

Hazard classification : Flam.Liq.2
Skin Irrit.2
STOT SE 3
Repr.2
STOT RE 2
Aquatic Chronic 3

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, CJ-100 Adhesive, in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

CJSA
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SECTION 2. HAZARDS IDENTIFICATION (continued)

GHS Label



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: DANGER

Hazard Statement(s):

H225 Highly flammable
H315 Causes skin irritation
H336 May cause drowsiness or dizziness
H361 Suspected of damaging fertility or the unborn child
H373 May cause damage to organs through prolonged or repeated exposure
H412 Harmful to aquatic life with long lasting effects

Precautionary Statement(s):

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fumes/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P302+P352 IF ON SKIN: Wash with soap and water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Other hazards which do not result in classification but contribute to overall hazards

None known



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	EINECS No.	%
Toluene	108-88-3	203-625-9	70 - 90
Ethyl acetate	141-78-6	205-500-4	
Hexane	110-54-3	203-777-6	

SECTION 4. FIRST AID MEASURES

In case of inhalation

Remove to fresh air, keep warm and at rest. Contact physician if symptom persists.

In case of skin contact

Remove contaminated clothing. Rinse with copious amount of water and soap. Get medical advice if skin irritation or a rash occurs. Wash clothing before reuse.

In case of eye contact

Contact lenses should be removed. Rinse with copious amount of water immediately. Seek medical advice if eye irritation develops and persists.

In case of ingestion

DO NOT induce vomiting. Rinse mouth thoroughly with water. Get medical attention if a symptom persists.

Personal protection equipment for first-aiders

Pay attention to any potential hazards and use recommended personal protection equipment if potential for exposure exists.

Most important symptoms and effects, acute and delayed

May cause skin irritation. May cause drowsiness and dizziness. May cause damage to organs through prolonged or repeated exposure. Suspected of damaging fertility or the unborn child.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, dry chemical.

Unsuitable extinguishing media

None known.

Specific firefighting procedures

Remove undamaged containers from fire area if it is safe to do so. Use extinguishing media that is suitable to local circumstances and surrounding environment.



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SECTION 5. FIRE FIGHTING MEASURES (continued)

Special person protection equipment for firefighters

NIOSH-approved self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific hazards arising from firefighting

Exposure to combustion products may be a hazard to health.

Thermal decomposition products

Carbon dioxide, carbon monoxide, nitrogen oxides, and other irritant gases.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure

Use recommended personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Measure for cleaning/collecting

Wipe or soak with inert liquid binding material (sand, sawdust, etc.). Scrape away cured material. Dispose the spilt material according to local or national regulations. Section 13 of this safety data sheet provides information regarding certain local or national requirements.

Additional information

Prevent spillage from entering drainage/sewer systems. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SECTION 7. HANDLING AND STORAGE

Handling

Ensure good ventilation during use. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using the product.

Storage

Ensure containers and cartridges are tightly closed. Store in a dry, well-ventilated area, and protected from direct sunlight with temperature not exceeding 30 °C. Keep away from incompatibles. Refer to section 10 for incompatible materials.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Components	CAS No.	Form of exposure (Value type)	Control Parameter	Basis
Toluene	108-88-3	8 hours TWA (skin)	188 mg/m ³	Malaysia OSHA
Toluene	108-88-3	8 hours TWA	200 ppm	US OSHA
Toluene	108-88-3	8 hours TWA	191 mg/m ³	UK WEL
Toluene	108-88-3	8 hours TWA	191 mg/m ³	Safe Work Australia



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SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION (continued)

Components	CAS No.	Form of exposure (Value type)	Control Parameter	Basis
Ethyl acetate	141-78-6	8 hours TWA	1 440 mg/m ³	Malaysia OSHA
Ethyl acetate	141-78-6	8 hours TWA	1,400 mg/m ³	US OSHA
Ethyl acetate	141-78-6	8 hours TWA	730 mg/m ³	UK WEL
Ethyl acetate	141-78-6	8 hours TWA	720 mg/m ³	Safe Work Australia
Hexane	110-54-3	8 hours TWA	176 mg/m ³	Malaysia OSHA
Hexane	110-54-3	8 hours TWA	1,800 mg/m ³	US OSHA
Hexane	110-54-3	8 hours TWA	72 mg/m ³	UK WEL
Hexane	110-54-3	8 hours TWA	72 mg/m ³	Safe Work Australia

Engineering controls

Product curing may form hazardous compounds. Ensure adequate ventilation and minimise workplace exposure concentrations.

Industrial hygiene

Remove immediately all contaminated clothing. Do not inhale vapour. Wash hands and contaminated areas with water and soap before leaving the work site. Change clothing before leaving workplace and wash before reuse. Do not eat, drink, or smoke while using product.

Hand protection

Suitable impervious protective gloves (neoprene, nitrile, etc.). Breakthrough time is not tested for this product. Change gloves often if possible.

Respiratory protection

A NIOSH-approved respirator with filter for organic vapours is recommended where local ventilation is not adequate.

Eye/Face protection

Protective goggles/safety glasses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Thixotropic paste
Odour :	Characteristic odour
Odour threshold :	Not determined
pH :	Not applicable
Freezing/Melting point :	Not determined
Boiling point range :	Not determined
Flash point :	<23 °C
Evaporation rate :	Not applicable
Flammability :	Highly flammable
Explosive properties :	Not classified as explosive
Oxidising properties :	Not classified as oxidising
Vapour pressure :	Not applicable
Vapour density :	Not applicable



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Relative density :	Approximately 0.88
Solubility in water :	Not determined
N-octanol/water partition coefficient :	Not determined
Decomposition temperature :	Not determined
Viscosity :	7,000 - 8,200 cPs

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No reactive hazards known.

Stability

Stable under recommended handling and storage conditions.

Conditions to avoid

Avoid sources of ignition.

Hazardous reactions

Hazardous polymerisation will not occur.

Hazardous decomposition products

None known.

Incompatible materials

Strong oxidising agents, acids, and sources of ignition.

SECTION 11. TOXICOLOGICAL INFORMATION

No specific oral, inhalation or dermal toxicology data is known for this product. Any toxicological data included in this section is based on the data associated with the components.

Acute oral toxicity, LD₅₀ (rat):

Not classified based on available information and/or concentration of components.

Toluene	5,580 mg/kg
Ethyl acetate	5,620 mg/kg
Hexane	15,720 mg/kg

Acute dermal toxicity, LD₅₀ (rabbit):

Not classified based on available information and/or concentration of components.

Toluene	>5,000 mg/kg
Ethyl acetate	>20,000 mg/kg
Hexane	>2,000 mg/kg

Acute inhalation toxicity, LC₅₀ (4 hours, rat):

Not classified based on available information and/or concentration of components.

Toluene	>20 mg/L
Hexane	17,600 mg/m ³



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SECTION 11. TOXICOLOGICAL INFORMATION (continued)

Serious eye damage/eye irritation:

Not classified based on available information and/or concentration of components.

Toluene	Not eye irritant.
Ethyl acetate	Not eye irritant.
Hexane	Not eye irritant.

Skin corrosion/skin irritation:

Classified as a skin irritant.

Toluene	Causes skin irritation.
Ethyl acetate	Not skin irritant.
Hexane	Causes skin irritation.

Respiratory/Skin sensitisation:

Not classified based on available information and/or concentration of components.

Toluene	Not sensitising on skin.
Ethyl acetate	Not sensitising on skin.
Hexane	Not sensitising on skin.

Germ cell mutagenicity:

Not classified based on available information and/or concentration of components.

Toluene	Negative genotoxicity in vitro. Negative genotoxicity in vivo.
Ethyl acetate	Negative genotoxicity in vitro. Negative genotoxicity in vivo.
Hexane	Negative genotoxicity in vitro. Negative genotoxicity in vivo.

Carcinogenicity:

Not classified based on available information and/or concentration of components.

Toluene	Negative carcinogenicity. NOAEC: 1,200 ppm
Ethyl acetate	Negative carcinogenicity.
Hexane	Negative carcinogenicity. NOAEL: >5,000 ppm

Reproductive toxicity:

Suspected of damaging fertility or the unborn child.

Toluene	Parental and off-spring toxicity: 500 ppm Fertility, NOAEC: 2,000 ppm Maternal toxicity, NOAEC: 750 ppm Foetal toxicity, NOAEC: 750 ppm
Ethyl acetate	No effect on fertility and foetal development.
Hexane	Maternal toxicity, LOAEC: 5,000 ppm Development toxicity, LOAEC: 200 ppm

Specific target organ toxicity – single exposure:

Classified as having narcotic effects.

Toluene	May cause drowsiness and dizziness.
Ethyl acetate	May cause drowsiness and dizziness.
Hexane	May cause drowsiness and dizziness.



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SECTION 11. TOXICOLOGICAL INFORMATION (continued)

Specific target organ toxicity – repeated exposure:

Classified as specific target organ toxicant.

Toluene	Exposure for 13 weeks by oral on mouse. NOAEL: 625 mg/kg/day Exposure for 24 months by inhalation on rats. NOAEC: 1,131 mg/m ³ air
Ethyl acetate	Exposure by oral on rats for 90 days. NOAEL: 900 mg/kg bw/day Exposure by inhalation on rats for 94 days. NOAEC: 350 ppm
Hexane	Exposure by oral on rats for 90 days. NOAEL: 568 mg/kg bw May cause damage to the nervous system via inhalation. NOAEC: <500 ppm

Aspiration toxicity:

Not classified based on available information and/or concentration of components.

Hexane Classified as an aspiration hazard.

Likely route of administration:

Inhalation, skin contact, and ingestion.

SECTION 12. ECOLOGICAL INFORMATION

Individual components of this mixture have been independently tested by the raw material suppliers and any known results have been presented below. The results for the individual components may not be representative of the ecological toxicity of this finished product. This finished product has not been tested to determine individual toxicological/ecological limits.

Ecology toxicity:

Harmful to aquatic life with long lasting effects.

Toluene

Toxicity to fish	Exposure for 96 hours, LC ₅₀ : 5.5 mg/L
Toxicity to crustacean	Exposure for 48 hours, EC ₅₀ : 3.78 mg/L
Toxicity to algae or other aquatic plants	Exposure for 3 hours, EC ₅₀ : 207 mg/L

Ethyl acetate

Toxicity to fish	Exposure for 96 hours, LC ₅₀ : 220 mg/L
Toxicity to crustacean	Exposure for 48 hours, EC ₅₀ : 1,200 mg/L
Toxicity to algae or other aquatic plants	Exposure for 72 hours, NOEC: >100 mg/L

Hexane

Toxicity to fish	Exposure for 96 hours, LC ₅₀ : >1,000 mg/L
Toxicity to crustacean	Exposure for 48 hours, EC ₅₀ : >3.5 mg/L
Toxicity to algae or other aquatic plants	Exposure for 10 days, EC ₅₀ : 2.66%



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SECTION 12. ECOLOGICAL INFORMATION (continued)

Persistence and degradability:

Not likely to be persistent based on available information and/or concentration of components.

Toluene Readily biodegradable.
Exposure for 20 days, 86% biodegradation.

Ethyl acetate Readily biodegradable.
Exposure for 20 days, 69% biodegradation.

Hexane Readily biodegradable.
Exposure for 28 days, 98% biodegradation.

Bioaccumulative potential:

No bioaccumulation potential based on available information and/or concentration of components.

Toluene BCF: 90

Ethyl acetate BCF: 30

Hexane BCF: 500

Mobility in soil:

No data available.

SECTION 13. DISPOSAL CONSIDERATION

Waste treatment/disposal methods - unused products

Disposal of waste to be in accordance with the Environmental Quality (Scheduled Wastes) Regulations and other guidelines issuance by DOE and/or local authorities.

Waste treatment/disposal methods - contaminated packaging

Dispose of as unused product. Empty container should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

Road transport (UNRTDG)

UN number : UN1133
Proper shipping name : ADHESIVES containing flammable liquid
Technical name : Not applicable
Hazard class : 3
Classification code : FI
Packing group : II



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SECTION 14. TRANSPORT INFORMATION (continued)

Marine transport (IMDG)

UN number : UN1133
Proper shipping name : ADHESIVES containing flammable liquid
Technical name : Not applicable
Hazard class : 3
EmS : F-E, S-D
Packing group : II
Marine pollutant : Not marine pollutant

Air transport (IATA)

UN number : UN1133
Proper shipping name : ADHESIVES containing flammable liquid
Technical name : Not applicable
Hazard class : 3
Packing group : II

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the hazardous chemical in question

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2010 (Malaysia)

Occupational Safety and Health (Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 (Malaysia)

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (European Union)

Occupational Safety and Health Administration (OSHA) (2006) Air Contaminants. 29 CFR 1910.1000 (United States of America)

Work Health and Safety Act 2011 (Australia)

EH40/2005 Workplace exposure limits (United Kingdom)

Chemical inventory status

Australia AICS : All ingredients listed or exempt.
Canada DSL : All ingredients listed or exempt.
China IECSC : All ingredients listed or exempt.
Japan ENCS : All ingredients listed or exempt.
Korea KECI : All ingredients listed or exempt.
Philippines PICCS : All ingredients listed or exempt.
United States TCSA : All ingredients listed or exempt.



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SECTION 16. OTHER INFORMATION

Definitions

TWA :	Time-weighted average.
STEL :	Short-term exposure level.
OSHA :	Occupational Safe and Health Act
WEL :	Workplace exposure limits
LD ₅₀ :	The minimum dose required for lethal effects in 50% of a given population of test specimens.
ppm :	part per million
bw :	body weight
BCF :	Bioconcentration factor
NOAEL :	No-observed-adverse-effect-level
LOAEL :	Lowest-observed-adverse-effect level
NIOSH :	National Institute for Occupational Safety and Health.
UNRTDG :	United Nations Recommendations on the Transport of Dangerous Goods
IMDG :	International Maritime Dangerous Goods
IATA :	International Air Transport Association
AICS :	Australian Inventory of Chemical Substances
DSL :	Domestic Substance List
ENCS :	Existing and New Chemical Substances.
KECI :	Korea Existing Chemicals Inventory.
ECSN :	Existing Chemical Substance Nomination.
TSCA :	Toxic Substances Control Act

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The details contained herein are based on our present state of knowledge and experience in characterising our product with regard to any possible safety requirement at the date of its publication. We do, however, pass them on without any warranty or property assurances.

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, CJ-100 Adhesive, in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

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