

The Professional's Choice

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name PVC PIPE CEMENT

Synonyms 8132, 8136 - PRODUCT CODE(S) • CRC PVC PIPE CEMENT

1.2 Uses and uses advised against

Uses SOLVENT BASED ADHESIVE

1.3 Details of the supplier of the product

Supplier name	CRC INDUSTRIES (AUST) PTY LIMITED		
Address	9 Gladstone Road, Castle Hill, NSW, 2154, AUSTRALIA		
Telephone	(02) 9849 6700		
Fax	(02) 9680 4914		
Email	info.au@crcind.com		
Website	www.crcindustries.com.au		

1.4 Emergency telephone numbers

Emergency 13 11 26 (PIC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

Physical Hazards

Flammable Liquids: Category 2

Health Hazards

Skin Corrosion/Irritation: Category 2 Serious Eye Damage / Eye Irritation: Category 2A Specific Target Organ Toxicity (Single Exposure): Category 3 (Respiratory Irritation) Carcinogenicity: Category 2

Environmental Hazards

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word	DANGER	
Pictograms		

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

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Prevention statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond 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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response statements	
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove 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
D200 + D242	do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P321 P362	Specific treatment is advised - see first aid instructions.
P370 + P378	Take off contaminated clothing and wash before re-use.
F370 + F376	In case of fire: Use appropriate media for extinction.
Storage statements	
P403 + P233 + P235	Store in a well-ventilated place. Keep cool. Keep container tightly closed.
P405	Store locked up.
Disposal statements	
-	Dianage of contents/container in accordance with relevant regulations
P501	Dispose of contents/container in accordance with relevant regulations.

2.3 Other hazards

No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
CYCLOHEXANONE	108-94-1	203-631-1	30 to 60%
TETRAHYDROFURAN (THF)	109-99-9	203-726-8	30 to 60%
METHYL ETHYL KETONE (2-BUTANONE)	78-93-3	201-159-0	5 to 10%
POLYMER(S)	-	-	5 to 10%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
Inhalation	If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
First aid facilities	Eve wash facilities and safety shower should be available

Eye wash facilities and safety shower should be available. First aid facilities

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Dry agent or carbon dioxide. Do NOT use water. Prevent contamination of drains and waterways.

5.2 Special hazards arising from the substance or mixture

Highly flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Vapour may form explosive mixtures with air. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights when handling. Earth containers when dispensing fluids.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

•3YE

- •3 Alcohol Resistant Foam is the preferred firefighting medium but, if it is not available, normal foam can be used.
- Y Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.
- E Evacuation of people in and around the immediate vicinity of the incident should be considered.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, preferably flammables store, removed from direct sunlight, incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation and fire protection systems.

7.3 Specific end uses

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
	Reference	ppm	mg/m³	ppm	mg/m³
Cyclohexanone	SWA [AUS]	25	100		
Cyclohexanone	SWA [Proposed]	10	40	20	80
Methyl ethyl ketone (MEK)	SWA [AUS]	150	445	300	890
Tetrahydrofuran	SWA [AUS]	100	295		



Biological limits

Ingredient	Determinant	Sampling Time	BEI
CYCLOHEXANONE	1,2-Cyclohexanediol in urine (with hydrolysis)	End of shift at end of workweek	80 mg/L
	Cyclohexanol in urine (with hydrolysis)	End of shift	8 mg/L
METHYL ETHYL KETONE (2-BUTANONE)	Methyl ethyl ketone in urine	End of shift	2 mg/L
TETRAHYDROFURAN (THF)	Tetrahydrofuran in urine	End of shift	2 mg/L

Reference: ACGIH Biological Exposure Indices

8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Explosive/flammable vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

PPE

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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Appearance	VISCOUS CLEAR LIQUID
Odour	SOLVENT ODOUR
Flammability	HIGHLY FLAMMABLE
Flash point	< 0°C
Boiling point	66°C
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
рН	NOT AVAILABLE
Vapour density	> 1 (Air = 1)
Specific gravity	0.935 to 0.945
Solubility (water)	SLIGHTLY SOLUBLE
Vapour pressure	10.6 kPa @ 20°C
Upper explosion limit	8 % (Cyclohexanone)
Lower explosion limit	1.1 % (Cyclohexanone)
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE

10. STABILITY AND REACTIVITY

10.1 Reactivity

May form explosive peroxides.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

May form explosive peroxides.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), heat and ignition sources. May decompose in the presence of air and light forming explosive peroxides.

10.6 Hazardous decomposition products

May evolve carbon oxides and hydrocarbons when heated to decomposition.

Harmful if inhaled.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Information available for the ingredients:

Ingredient		Oral LD50	Dermal LD50	Inhalation LC50
				> 6.2 mg/L/4 hours (rat)
TETRAHYDROFURAN (THF)		1650 mg/kg (rat); typically 2050 - 6210 mg/kg (rat)	14.7 mg/L/6hrs (rat)	> 2000 mg/kg (rat)
METHYL ETHYL KE	ETONE (2-BUTANONE)	2737 mg/kg (rat)	6480 mg/kg (rabbit)	23500 mg/kg (rat)
Skin	Contact may result in irrita	tion, redness, rash and dern	natitis.	
Eye	Contact may result in irrita	tion, lacrimation, pain and re	edness.	
Sensitisation	Not classified as causing s	Not classified as causing skin or respiratory sensitisation.		
Mutagenicity	Tetrahydrofuran shows no	Tetrahydrofuran shows no genotoxicity in vitro and in vivo.		
Carcinogenicity	The carcinogenicity of tetrahydrofuran has been assessed for kidney tumours in rats as well as liver tumours in female mice. Whilst carcinogenic activity was observed only at high doses, tetrahydrofuran may be classified as a potential carcinogen (NTP, ECHA, AICIS, IARC).			
Reproductive	Not classified as a reprodu	Not classified as a reproductive toxin.		
STOT - single exposure	Over exposure may result in respiratory irritation, coughing, nausea, CNS depression, dizziness and headache. High level exposure may result in anaesthesia and unconsciousness.			
STOT - repeated exposure	solvents have been report	organ damage from repeated exposure. However, repeated exposure to some ed to cause adverse effects to the central nervous system (CNS), liver and kidney. thyl ethyl ketone (MEK) in combination with certain other solvents (eg n-hexane) rve damage.		
Asulustian	Not clossified as acquaing conjustion			

Aspiration Not classified as causing aspiration.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information provided.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposalFor small amounts, mix with sand and dispose of to approved landfill. For larger quantities, dissolve in
flammable solvent and incinerate at an approved facility equipped with after burner and scrubber.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1133	1133	1133
14.2 Proper Shipping Name	ADHESIVES containing flammable liquid	ADHESIVES containing flammable liquid	ADHESIVES containing flammable liquid
14.3 Transport hazard class	3	3	3
14.4 Packing Group	II	II	11

14.5 Environmental hazards

No information provided.

14.6 Special precautions for user

Hazchem code	●3YE
GTEPG	3A1
EmS	F-E, S-D

15. REGULATORY INFORMATION

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

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

 Inventory listings
 AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

 All components are listed on AlIC, or are exempt.
 NEW ZEALAND: NZIoC (New Zealand Inventory of Chemicals)

 All components are listed on the NZIoC inventory, or are exempt.
 All components are listed on the NZIoC inventory, or are exempt.

16. OTHER INFORMATION

Additional information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations	ACGIH	American Conference of Governmental Industrial Hygienists
	CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
	CNS	Central Nervous System
	EC No.	EC No - European Community Number
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
	GHS	Globally Harmonized System
IAR	GTEPG	Group Text Emergency Procedure Guide
	IARC	International Agency for Research on Cancer
	LC50	Lethal Concentration, 50% / Median Lethal Concentration
	LD50	Lethal Dose, 50% / Median Lethal Dose
	mg/m³	Milligrams per Cubic Metre
	OEL	Occupational Exposure Limit
	рН	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm STEL STOT-R STOT-S SUSMP SWA TLV TWA		Parts Per Million
		Short-Term Exposure Limit
		Specific target organ toxicity (repeated exposure)
		Specific target organ toxicity (single exposure)
		Standard for the Uniform Scheduling of Medicines and Poisons Safe Work Australia
		Threshold Limit Value
	TWA	Time Weighted Average
		Time Weighted Average
Report status	This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').	
	manufacturer the current st at the time o	on information concerning the product which has been provided to RMT by the , importer or supplier or obtained from third party sources and is believed to represent ate of knowledge as to the appropriate safety and handling precautions for the product f issue. Further clarification regarding any aspect of the product should be obtained he manufacturer, importer or supplier.
	not provide a no liability for	as taken all due care to include accurate and up-to-date information in this SDS, it does ny warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts r any loss, injury or damage (including consequential loss) which may be suffered or ny person as a consequence of their reliance on the information contained in this SDS.
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