SAFETY DATA SHEET

Issue Date 1 August 2024 **Version** 2

Section 1: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier
Product Name C.I.A COLOUR SEAL BASE

Description Acrylic resin

Other means of identification
UN Number UN1866

Recommended use of the chemical and restrictions on use
Recommended Use Recommended for Industrial and/or Professional use only

Details of manufacturer
Manufacturer C.I.A Concrete
20 Endeavour Drive
KUNDA PARK QLD 4556

For further information, please contact
Contact Point +61 (07) 5445 2399
E-mail address sales@ciaconcrete.com.au

Emergency telephone number
Emergency telephone number **Poisons Information Centre +61 13 11 26**
Fire emergency 000

Section 2: HAZARD(S) IDENTIFICATION

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

GHS Classification

Flammable liquids	Category 3 - (H226)
Carcinogenicity	Category 2 - (H351)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Skin corrosion/irritation	Category 2 - (H315)

Label elements

Signal word Warning

Hazard statements
H226 - Flammable liquid and vapour
H315 - Causes skin irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapours/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Use explosion-proof electrical/ ventilating/ lighting/ equipment
Keep cool

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific treatment (see supplemental first aid instructions on this label)
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before re-use
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other hazards
May be harmful in contact with skin
Toxic to aquatic life with long lasting effects
Toxic to aquatic life

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical Name	CAS No	Weight-%
Solvent naphtha (petroleum), light aromatic	64742-95-6	30-<60
Xylene	1330-20-7	10-<30
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	10-<20
Ethylbenzene	100-41-4	5-<10
Naphthalene	91-20-3	1-<3
1,3,5-Trimethylbenzene	108-67-8	1-<3
1,2,4-Trimethylbenzene	95-63-6	1-<3
Non-hazardous ingredients		Balance

Section 4: FIRST AID MEASURES

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Emergency telephone number	Poisons Information Centre, Australia: 13 11 26
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a doctor.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media

Suitable extinguishing media
Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam. Water spray.

Unsuitable extinguishing media
Do not use water jetstream

Specific hazards arising from the chemical

Flammable. Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Hazchem code •3Y.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take action to prevent static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders
Use personal protection recommended in Section 8.

Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment
Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dam far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up
Take action to prevent static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections
See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General Hygiene Considerations
When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Wash hands before breaks and after work. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e. pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular

national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store separately.

Incompatible materials
Strong acids. Strong bases. Strong oxidising agents.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Exposure Limits . This product, as supplied, contains hazardous materials with occupational exposure limits.

Chemical Name	Australia
Xylene 1330-20-7	80 ppm TWA 350 mg/m3 TWA 150 ppm STEL 655 mg/m3 STEL
Ethylbenzene 100-41-4	100 ppm TWA 434 mg/m3 TWA 125 ppm STEL 543 mg/m3 STEL
Naphthalene 91-20-3	10 ppm TWA 52 mg/m3 TWA 15 ppm STEL 79 mg/m3 STEL

Biological occupational exposure limits An occupational medicine specialist familiar with national and regional regulations and standards must be consulted to establish a program of medical examinations for workers exposed to substances with biological limit values

Chemical Name	Australia	ACGIH	United Kingdom	European Union
Xylene 1330-20-7	-	Methylhippuric acids: 1.5 g/g creatinine urine end of shift	650 mmol/mol creatinine	
Ethylbenzene 100-41-4	-	Sum of mandelic acid and phenylglyoxylic acid: 0.15 g/g creatinine urine end of shift	-	
Naphthalene 91-20-3	-	1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis: end of shift	-	

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and body protection Antistatic footwear. Wear fire resistant or flame retardant clothing. Gloves made of plastic or rubber. Suitable protective clothing. Apron.

Respiratory protection Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS 1716.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid
Appearance	clear
Colour	light yellow
Odour Aromatic	Aromatic Petroleum distillates
Odour threshold	No information available

Property	Values	Remarks • Method
pH		No information available
Melting point / freezing point		No information available
Boiling point/boiling range	137 - 143 °C	(based on components)
Flash point	27 °C	Derived from solvent ISO 1523
Evaporation rate	0.7	
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit:	7.7 %	
Lower flammability limit:	1.1 %	
Vapour pressure	52 hPa	40°C Derived from solvent
Vapour density	3.7	Derived from solvent
Relative density	0.94	
Water solubility		insoluble
Solubility(ies)	-	No information available
Partition coefficient		No information available
Auto-ignition temperature	465 °C	Derived from solvent
Decomposition temperature		No information available
Kinematic viscosity	43 mm2/s	
Dynamic viscosity	40 - 50 mPa s	No information available
Explosive properties		No information available
Oxidising properties		No information available

Other Information

VOC Content (%)	No information available
Density	No information available

* This information may be derived from the components in the preparation.

Section 10: STABILITY AND REACTIVITY

Reactivity
No Data Available.

Chemical stability
Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	May be ignited by heat, sparks or flames.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Strong acids. Strong bases. Strong oxidising agents.

Hazardous Decomposition Products
None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document
Converted acute toxicity point estimates may have been used when only acute toxicity hazard classification is available.

ATEmix (oral) 16,263.00
ATEmix (dermal) 3,721.00
ATEmix (inhalation-vapour) 29.00
ATEmix (inhalation-dust/mist) 4.00
0% of the mixture consists of ingredient(s) of unknown toxicity
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Solvent naphtha (petroleum), light aromatic	= 8400 mg/kg (Rat)	-	= 3400 ppm (Rat) 4 h
Xylene	= 3500 mg/kg (Rat)	-	= 29.08 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h
Ethylbenzene	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.2 mg/L (Rat) 4 h
Naphthalene	= 1110 mg/kg (Rat) = 490 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	-
1,3,5-Trimethylbenzene	= 5000 mg/kg (Rat)	-	= 24 g/m3 (Rat) 4 h
1,2,4-Trimethylbenzene	= 3280 mg/kg (Rat)	-	= 18 g/m3 (Rat) 4 h

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Classification based on individual ingredients of the mixture. Irritating to skin.

Serious eye damage/eye irritation
Classification based on individual ingredients of the mixture. Irritating to eyes.

Sensitisation
No information available.

Germ cell mutagenicity
No information available.

Carcinogenicity
Contains a known or suspected carcinogen.

Reproductive toxicity
No information available.

STOT - single exposure
May cause respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Fish
Solvent naphtha (petroleum), light aromatic	9.22 mg/L LC50 96 h Oncorhynchus mykiss
Xylene	13.4 mg/L LC50 96 h Pimephales promelas flow-through 13.5 - 17.3 mg/L LC50 96 h Oncorhynchus mykiss 13.1 - 16.5 mg/L LC50 96 h Lepomis macrochirus flow-through 23.53 - 29.97 mg/L LC50 96 h Pimephales promelas static 19 mg/L LC50 96 h Lepomis macrochirus 2.661 - 4.093 mg/L LC50 96 h Oncorhynchus mykiss static 30.26 - 40.75 mg/L LC50 96 h Poecilia reticulata static 780 mg/L LC50 96 h Cyprinus carpio semi-static 780 mg/L LC50 96 h Cyprinus carpio 7.711 - 9.591 mg/L LC50 96 h Lepomis macrochirus static
Solvent naphtha (petroleum), heavy aromatic	19 mg/L LC50 96 h Pimephales promelas static 2.34 mg/L LC50 96 h Oncorhynchus mykiss 1740 mg/L LC50 96 h Lepomis macrochirus static 41 mg/L LC50 96 h Pimephales promelas 45 mg/L LC50 96 h Pimephales promelas flow-through
Ethylbenzene	11.0 - 18.0 mg/L LC50 96 h Oncorhynchus mykiss static 7.55 - 11 mg/L LC50 96 h Pimephales promelas flow-through 9.1 - 15.6 mg/L LC50 96 h Pimephales promelas static 9.6 mg/L LC50 96 h Poecilia reticulata static 4.2 mg/L LC50 96 h Oncorhynchus mykiss semi-static 32 mg/L LC50 96 h Lepomis macrochirus static
Naphthalene	0.91 - 2.82 mg/L LC50 96 h Oncorhynchus mykiss static 5.74 - 6.44 mg/L LC50 96 h Pimephales promelas flow-through 1.99 mg/L LC50 96 h Pimephales promelas static 1.6 mg/L LC50 96 h Oncorhynchus mykiss flow-through 31.0265 mg/L LC50 96 h Lepomis macrochirus static
1,3,5-Trimethylbenzene	3.48 mg/L LC50 96 h Pimephales promelas
1,2,4-Trimethylbenzene	7.19 - 8.28 mg/L LC50 96 h Pimephales promelas flow-through

Chemical Name	Crustacea
Solvent naphtha (petroleum), light aromatic	6.14 mg/L EC50 48 h Daphnia magna
Xylene	3.82 mg/L EC50 48 h water flea 0.6 mg/L LC50 48 h Gammarus lacustris
Solvent naphtha (petroleum), heavy aromatic	0.95 mg/L EC50 48 h Daphnia magna
Ethylbenzene	1.8 - 2.4 mg/L EC50 48 h Daphnia magna
Naphthalene	2.16 mg/L LC50 48 h Daphnia magna 1.96 mg/L EC50 48 h Daphnia magna Flow through 1.09 - 3.4 mg/L EC50 48 h Daphnia magna Static
1,3,5-Trimethylbenzene	50 mg/L EC50 24 h Daphnia magna
1,2,4-Trimethylbenzene	6.14 mg/L EC50 48 h Daphnia magna

Chemical Name	Algae/aquatic plants
Solvent naphtha (petroleum), heavy aromatic	2.5 mg/L EC50 72 h Skeletonema costatum
Ethylbenzene	438 mg/L EC50 96 h Pseudokirchneriella subcapitata 4.6 mg/L EC50 72 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L EC50 96 h Pseudokirchneriella subcapitata static 2.6 - 11.3 mg/L EC50 72 h Pseudokirchneriella subcapitata static
Naphthalene	0.4 mg/L EC50 72 h Skeletonema costatum

Persistence and degradability
No information available.

Bioaccumulative potential
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Chemical Name	Partition coefficient
Xylene	*3.15*
Solvent naphtha (petroleum), heavy aromatic	*6.1*
Ethylbenzene	*3.118*
Naphthalene	*3.3*
1,2,4-Trimethylbenzene	*3.63*

Mobility

Mobility in soil
No information available.

Mobility
No information available.

Other adverse effects
No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Refer to all federal, state and local regulations prior to disposal of container and unused contents by re-use, recycle or disposal.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations. Observe all label precautions until container is cleaned, reconditioned or destroyed. Refer to all federal, state and local regulations prior to disposal of container and unused contents by re-use, recycle or disposal.

Section 14: TRANSPORT INFORMATION

ADG
UN Number UN1866
Proper shipping name RESIN SOLUTION
Description UN1866, RESIN SOLUTION, 3, III
Hazard Class 3
Packing Group III
Special Precautions for users 223, *
Hazchem code •3Y.
IERG 14

IMDG
UN/ID no UN1866
Proper shipping name RESIN SOLUTION
Description UN1866, RESIN SOLUTION, 3, III, (27°C C.C.)
Hazard Class 3
Packing Group III
EmS-No F-E, S-E
Special Precautions for users 223, 955

Transport in Bulk According to Annex II of MARPOL and the IBC CODE
No information available

IATA

UN/ID no	UN1866
Proper shipping name	Resin solution
Description	UN1866, Resin solution, 3, III
Hazard Class	3
Packing Group	III
ERG Code	3L

Section 15: REGULATORY INFORMATION

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

National regulations
Australia
Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG). Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

See section 8 for national exposure control parameters

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)
Classified as a scheduled poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poison Schedule Number
S6

Major hazard (accident/incident planning) regulation Verify that license requirements are met

Hazardous chemical category	Threshold quantity (T)
Liquids that meet the criteria for Class 3 Packing Group II or III	50 000
Liquids with flash points <61°C kept above their boiling points at ambient conditions	200

International Inventories

AICS - Australian Inventory of Chemical Substances	Listed or exempt
DSL - Canadian Domestic Substances List	Listed or exempt
IECSC - China Inventory of Existing Chemical Substances	No information available
ENCS - Japan Existing and New Chemical Substances	No information available
KECL - Korean Existing and Evaluated Chemical Substances	Listed or exempt
NZIoC - New Zealand Inventory of Chemicals	Listed or exempt
PICCS - Philippines Inventory of Chemicals and Chemical Substances	No information available
CICR - Turkey Chemical Inventory Control Regulation	No information available
NCSR - Taiwan National Chemical Substance Registry	No information available
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory	Listed or exempt

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

Section 16: ANY OTHER RELEVANT INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

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End of Safety Data Sheet