

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name TITANIUM KNIFEGRADE

Synonyms

1.2 Uses and uses advised against

Uses

Knife grade acrylic epoxy vinyl ester mastic.

1.3 Details of the supplier of the product

Supplier name **CDK STONE PTY LTD**

Address 4 - 6 Freighter Rd, Moorabbin, VIC, 3189, AUSTRALIA

Telephone (03) 8552 6000 (03) 8552 6001 Fax

Email help@cdkstone.com.au Website http://www.cdkstone.com.au

1.4 Emergency telephone numbers

13 11 26 **Emergency**

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 3

Health Hazards

Skin Corrosion/Irritation: Category 2 Skin Sensitisation: Category 1

Serious Eye Damage / Eye Irritation: Category 2A

Specific Target Organ Toxicity (Single Exposure): Category 3 (Respiratory Irritation)

Toxic to Reproduction: Category 2

Specific Target Organ Toxicity (Repeated Exposure): Category 1

Environmental Hazards

Aquatic Toxicity (Chronic): Category 3

2.2 GHS Label elements

DANGER Signal word

Pictograms







Page 1 of 8



PRODUCT NAME **TITANIUM KNIFEGRADE**

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H361d

Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated exposure. H372

H412 Harmful to aquatic life with long lasting effects.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

Ground and bond container and receiving equipment. P240 Use explosion-proof electrical/ventilating/lighting equipment. P241

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

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/hearing protection.

Response statements

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep 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 rinsina.

IF exposed or concerned: Get medical advice/ attention. P308 + P313 P321 Specific treatment is advised - see first aid instructions. P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use appropriate media to extinguish.

Storage statements

P403 + P233 + P235 Store in a well-ventilated place. Keep cool. Keep container tightly closed.

P405 Store locked up.

Disposal statements

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 |
|---------------------------------------|------------|-----------|--------------|
| STYRENE | 100-42-5 | 202-851-5 | 42 to <44% |
| METHYL METHACRYLATE | 80-62-6 | 201-297-1 | 1 to <1.5% |
| BENZOPHENONE, 2-HYDROXY-4-(OCTYLOXY)- | 1843-05-6 | 217-421-2 | 0.1 to <0.4% |
| ADDITIVE(S) | - | - | Remainder |
| TERTIARY AMINE | 38668-48-3 | 254-075-1 | 0.7 to <1% |

4. FIRST AID MEASURES

4.1 Description of first aid measures

If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to Eye

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or Inhalation

an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

ChemAlert.

PRODUCT NAME TITANIUM KNIFEGRADE

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.

For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If Ingestion

swallowed, do not induce vomiting. Also give water to drink.

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

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, carbon dioxide or foam, Prevent contamination of drains and waterways. Do not use water iets, Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2 Special hazards arising from the substance or mixture

Flammable. May evolve toxic gases (carbon and styrene oxides, hydrocarbons) when heated to decomposition. Styrene will polymerise readily at elevated temperatures and may violently rupture sealed containers. May form explosive mixtures with air. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones, etc when handling.

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

•3Y

- Alcohol Resistant Foam is the preferred firefighting medium but, if it is not available, normal foam can be used. •3
- Υ Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.

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. Take precautionary measures against electrostatic discharges.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

No information provided.



Revision No: 1.1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

| Ingredient | Reference | TWA | | STEL | |
|---------------------|----------------|-----|-------|------|-------|
| Ingredient | Reference | ppm | mg/m³ | ppm | mg/m³ |
| Methyl methacrylate | SWA [AUS] | 50 | 208 | 100 | 416 |
| Styrene, monomer | SWA [AUS] | 50 | 213 | 100 | 426 |
| Styrene, monomer | SWA [Proposed] | 20 | 85 | 40 | 170 |

Biological limits

| Ingredient | Reference | Determinant | Sampling Time | BEI |
|------------|-----------|--|---------------|------------------------|
| STYRENE | ACGIH BEI | Mandelic acid plus phenylglyoxylic acid in urine | End of shift | 400 mg/g creatinine |
| | ACGIH BEI | Styrene in urine | End of shift | 40 μg/L |

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. Flammable/explosive 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

Eye / Face Wear splash-proof goggles. **Hands** Wear PVA or Viton® gloves.

Body Wear coveralls. If spraying, wear rubber boots and impervious coveralls.

Respiratory Wear a Type A (Organic vapour) respirator. If spraying, wear a Full-face Type A-Class P1 (Organic

gases/vapours and Particulate) respirator or an Air-line respirator.









9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance PASTE

OdourSLIGHT ODOURFlammabilityFLAMMABLEFlash point31°C

Boiling point NOT AVAILABLE
Melting point NOT AVAILABLE
Evaporation rate NOT AVAILABLE
pH NOT AVAILABLE
Vapour density NOT AVAILABLE

Relative density 1.1

Solubility (water) **NOT AVAILABLE** Vapour pressure **NOT AVAILABLE** Upper explosion limit **NOT AVAILABLE** Lower explosion limit **NOT AVAILABLE** Partition coefficient **NOT AVAILABLE Autoignition temperature NOT AVAILABLE Decomposition temperature NOT AVAILABLE Viscosity** > 20.5 mm²/s @ 40°C **Explosive properties NOT AVAILABLE Oxidising properties NOT AVAILABLE Odour threshold NOT AVAILABLE**



SDS Date: 20 Dec 2022

Revision No: 1.1

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

May polymerise with violent rupture/explosion.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Incompatible (explosively) with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), nitrates, amines, halogens, UV light, catalysts, heat and ignition sources. May result in polymerisation.

10.6 Hazardous decomposition products

May evolve toxic gases (carbon and styrene oxides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Based on available data, the classification criteria are not met. Acute exposure may result in nausea, **Acute toxicity**

vomiting, abdominal pain, diarrhoea, dizziness and drowsiness.

Information available for the ingredients:

| Ingredient | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------------------------|----------------------|----------------------------------|-------------------------------------|
| STYRENE | > 2000 mg/kg (rat) | > 2000 mg/kg (rat) (OECD 402) | 11.8 mg/L/4 hours (rat) (vapour) |
| METHYL METHACRYLATE | > 5000 mg/kg (mouse) | > 5000 mg/kg (rabbit) | > 25 mg/L (rat) |
| BENZOPHENONE, 2-HYDROXY-4-(OCTYLOXY)- | > 10 g/kg (rat) | > 10 g/kg (rabbit) | |

Skin Contact may result in drying and defatting of the skin, rash and dermatitis.

Contact may result in irritation, lacrimation, pain and redness. Eve

Sensitisation May cause an allergic skin reaction. This product is not classified as a respiratory sensitiser.

Mutagenicity The overall genotoxicity of styrene cannot be excluded.

Styrene is classified as probably carcinogenic to humans (IARC Group 2A). Carcinogenicity

Reproductive Styrene is suspected of damaging the unborn child.

STOT - single Over exposure may result in irritation of the nose and throat, coughing, nausea, vomiting, dizziness and

breathing difficulties. High level exposure may result in respiratory paralysis and unconsciousness.

exposure

STOT - repeated Causes damage to organs (nasal epithelial and ear) through prolonged or repeated exposure to styrene if inhaled.

Aspiration Not classified as causing aspiration.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

exposure

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

ChemAlert.

PRODUCT NAME TITANIUM KNIFEGRADE

12.5 Other adverse effects

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site.

Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Prevent contamination of drains and waterways as aquatic life may be threatened and environmental

damage may result.

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 | 1866 | 1866 | 1866 |
| 14.2 Proper Shipping Name | RESIN SOLUTION, flammable | RESIN SOLUTION, flammable | RESIN SOLUTION, flammable |
| 14.3 Transport hazard class | 3 | 3 | 3 |
| 14.4 Packing Group | III | III | III |

14.5 Environmental hazards

Not a Marine Pollutant.

14.6 Special precautions for user

 Hazchem code
 ●3Y

 GTEPG
 3A1

 EmS
 F-E, S-E

15. REGULATORY INFORMATION

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

Poison schedule Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals (GHS Revision 7).

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

All components are listed on AIIC, or are exempt.

16. OTHER INFORMATION

Additional information

WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT: If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (e.g. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

ChemAlert.

PRODUCT NAME TITANIUM KNIFEGRADE

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.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

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 Hygienia |
|---|
|---|

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

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

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA 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').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

ChemAlert.

PRODUCT NAME TITANIUM KNIFEGRADE

Prepared by

Risk Management Technologies 5 Ventnor Ave, West Perth Western Australia 6005 Phone: +61 8 9322 1711 Fax: +61 8 9322 1794 Email: info@rmt.com.au Web: www.rmtglobal.com

[End of SDS]



SDS Date: 20 Dec 2022

Revision No: 1.1