

Material Safety Data Sheet

1. Product and Company Identification

Product Name: Cutek CD50 Xtreme
Trade Name: Cutek CD50 Xtreme
Revision Date: 19/04/2011
Company Name: Chemisys Australia Pty Ltd
A.C.N. 096 578 013
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Hazardous according to the criteria of Safe Work Australia
Not classified as hazardous for transport (ADG7)
Classified as a Combustible Liquid C1, AS 1940-2004

2. Composition/Information on Ingredients

Ingredients considered hazardous according to the criteria of Safe Work Australia:

Chemical Name	CAS #	Proportion	EU Classification
Naphtha, Hydrotreated Heavy	[64742-48-9]	10 - 30%	Xn; R65, R66
Copper-8-Hydroxyquinoline	[10380-28-6]	<10%	
4,5dichloro2noctyl4isothiazolin3one	[64359-81-5]	<10%	Xi; R43 N; R51

Ingredients determined not to be hazardous to 100%

Notes on EU Symbols: Xn Harmful, Xi Irritant

3. Hazards Identification

Harmful: Low viscosity material may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking
Irritating to eyes and skin.
May cause sensitisation by skin contact
Toxic to aquatic organisms.

4. First Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention as soon as possible.

Ingestion:

DO NOT induce vomiting. If vomiting occurs spontaneously, keep airway clear. Seek medical attention IMMEDIATELY. NEVER induce vomiting or give anything by mouth to an unconscious patient.

Inhalation:

Remove victim to fresh air. Persons administering first aid to overexposure victims should carefully wash off any visible product from the victims face. Do not give anything by mouth to an unconscious person. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult administer oxygen. Get medical attention IMMEDIATELY.

Skin:

Wash with plenty of soap and water. Remove contaminated clothing and footwear. Wash clothing and contaminated footwear before reuse. Seek medical attention if irritation persists.

Note to doctor:

Treat symptomatically. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis.

5. Fire-Fighting Measures

Flash Point:

90 degrees Celsius (ASTM D92)

Extinguisher Media:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation.

Unusual Fire and Explosion Hazards:

None known

Special Protective Equipment:

Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

Combustion Products:

Toxic fumes may be evolved on burning or exposure to heat, along with oxides of carbon.

6. Accidental Release Measures

Hazards:

This product is toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Do not contaminate waterways.

Steps to be taken if material is released or spilled:

Wear appropriate protective clothing. Eliminate all ignition sources. Restrict access to contaminated area. Stop spill at source. Dike to prevent spreading. Collect free liquid into a recovery vessel. Absorb remainder with sand or clay and place in a properly labelled waste receptacle. Follow all government and local body regulations for disposal. Do not contaminate water while cleaning equipment or disposing of wastes. Prohibit contamination of streams, lakes and other bodies of water.

Container Disposal:

DO NOT reuse container. Dispose of safely.

7. Handling and Storage

Handling:

Avoid contact with skin, eyes and all other personal contact. Handle in accordance with good industrial hygiene and safety practises. Wash hands thoroughly after contact. Wear protective clothing when risk of exposure occurs. Avoid inhalation of vapour or mist. Only use in a well-ventilated area. Do not smoke. Extinguish any flames.

Storage:

Store in a cool, dry place out of reach of children.
Incompatible with unlined metal containers.

Other Precautions:

Do not pressurise, cut, weld, solder, drill, grind or expose containers to heat, flames, sparks or other potential sources of ignition.

Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. Exposure Controls/Personal Protection

Exposure Controls: In absence of standards it is recommended that the time weighted average concentration TLV/TWA for this product be determined at 5 mg/m³ for an oil mist. This defines the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short-term exposure limit TLV/STEL for this product should be determined at 10mg/m³ for an oil mist, which is the maximum allowable exposure concentration at any time.

Biological Limit: No biological limit allocated

Ventilation Requirements:

Good industrial hygiene practise dictates that indoor work areas should be isolated and provided with adequate local exhaust ventilation, if risk of overexposure occurs. Ventilate via mechanical methods (general or local exhaust) to maintain exposure below 1mg/m³ as per exposure control limits.

Eye Protection:

Eye contact must be avoided. If accidental eye contact is possible then wear safety goggles or a face visor with side shields.

Skin Protection:

Skin contact must be avoided and good personal hygiene practises observed. Protective clothing including impervious chemical nitrile gloves must be worn. Care must be taken while removing gloves and other skin protective equipment to avoid skin contact.

Respiratory Protection:

DO NOT breathe vapours. If mist is generated during application process, an approved mist respirator with organic vapour filters must be used if ventilation requirements cannot be maintained. Reference should be made to AS/NZS 1715 and AS/NZS 1716 Use and Maintenance of Respiratory Protective Devices for individual circumstances.

Personal Hygiene:

Minimize breathing vapour or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water. DO NOT Smoke while using or handling this product.

9. Physical and Chemical Properties

Appearance: Dark green/amber liquid.

Odour: Slight petroleum distillate odour.

PH Range:	2.8 – 3.8
Specific Gravity:	0.89 gm/litre @ 20 degrees Celsius
Solubility in Water:	Negligible
Flash Point:	90 degrees Celsius (ASTM D92)

10. Stability and Reactivity

Stability:	Products of this type are stable and unlikely to react in a hazardous manner under normal conditions.
Incompatibility:	Strong Oxidising Agents/Extreme Heat
Hazardous Decomposition Products:	Oxides of Carbon.
Hazardous Polymerisation:	Will not occur

9. Toxicological Data

Based on supplier MSDS the DMSO extract by IP 346 is less than 3%, the PAH extract is less than 1%, and the Benzene content is less than 0.1%.

Eyes:

Not available. Can cause severe irritation, redness, tearing, and blurred vision. Can cause irreversible damage on prolonged contact.

Ingestion:

Not available. Can cause gastro-intestinal irritation, nausea, vomiting, and diarrhoea.

Inhalation:

Not available. At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. Can cause nasal and respiratory irritation, dizziness, nausea, vomiting, headache, and weakness.

Skin:

Not available. Prolonged or repeated contact may result in itching, defatting, dermatitis or more serious irreversible skin disorders.

Available Data On Some Ingredients:

RTECS: CAS# 10380-28-6: Copper-8-Hydroxyquinoline

LD50/LC50: Oral rat 19930 mg/kg
Skin rabbit >2 gm/kg

RTECS: CAS# 64742-48-9: Naphtha, Hydrotreated Heavy

LD50/LC50: Oral rat LD50 >2000 mg/kg

RTECS: CAS# 64359-81-5: 4,5-dichloro-2-noctyl-4-isothiazolin-3-one

LD50/LC50: Oral rat >500 mg/kg
Skin rat >2 gm/kg
Inhalation rat 0.2mg/l

12. Ecological Information

Hazard:

This product is toxic to aquatic organisms Do not contaminate waterways.

Mobility:

Spillages may penetrate the soil however the product has negligible solubility in water so is unlikely to pose a significant long term risk to the environment.

CAS# 64359-81-5 4,5-dichloro-2-noctyl-4-isothiazolin-3-one

Aquatic Toxicity:

EC50/48h (static) 0.0097mg/l (Daphnia) OECD 202

EC50/72h 0.025mg/l (Scenedesmus subspicatus) OECD 201

LC50/96h 0.0078 mg/l (rainbow trout) OECD 203

[64359-81-5] 4,5-dichloro-2-noctyl-4-isothiazolin-3-one is in the OECD 308- test in environmentally relevant concentrations biodegradable. The half-life (DT50) is about 1.5 days and the DT90 is about 5.1 days.

CAS# 64742-48-9: Naphtha, Hydrotreated Heavy

Ecotoxicity:

Fish: Low toxicity: LC/EC/IC50> 1000mg/l

Aquatic invertebrates: Low toxicity: LC/EC/IC50> 1000mg/l

Algae: Low toxicity: LC/EC/IC50> 1000mg/l

Mobility: Floats on water. Adsorbs to soil and has low mobility.

Persistence/degradability: Readily biodegradable. Degrades rapidly in air by photo-chemical means.

Bioaccumulation: Has the potential to bioaccumulate.

13. Disposal Considerations

Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

Dispose of product and container responsibly and carefully.

Do not dispose of near waterways, down drains or into soil.

14. Transport Information

Classified as a Combustible Liquid C1, AS 1940-2004

ADG 7 Classifications:**ROAD/RAIL/SEA/AIR**

UN Number: N/A

Proper Name: N/A

DG Class: N/A

Subsidiary Risk: N/A

Packaging Group: N/A

HAZCHEM Code: N/A

Special Provisions: N/A

Packaging Method: N/A

15. Regulatory Information

Australian Classifications:

Classified as a Combustible Liquid C1, AS 1940-2004
Poisons Schedule 5

Labelling:

R65 Harmful: Low viscosity material may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking
R36/38 Irritating to eyes and skin.
R43 May cause skin sensitisation by contact
R51 Toxic to aquatic organisms.

S2 Keep out of the reach of children
S23 Do not breathe vapour
S24/25 Avoid contact with skin and eyes
S36/37 Wear suitable protective clothing and gloves
S61 Avoid release to the environment
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show container or label

16. Other Information

References:

Supplier MSDS
<http://hsis.ascc.gov.au/>
RTECS

Compiled by:

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This data sheet and the health, safety and environmental information it contains is considered to be accurate as of the date specified. However no warranty or representation, expressed or implied is made as to the accuracy or completeness of the data and the information in this data sheet.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the users obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Chemisys Group shall not be responsible for any damage of injury resulting from abnormal use of this material, from any failure to adhere to recommendations or from any hazards inherent in the nature of the material.