

# Material Safety Data Sheet

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## 1. Product and Company Identification

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**Product Name:** Cutek Green  
**Trade Name:** Cutek Green  
**Revision Date:** 18/11//2010  
**Company Name:** Chemisys Australia Pty Ltd  
A.C.N. 096 578 013  
**Address:** P. O. Box 3604  
Loganholme  
QLD 4129  
Australia  
Phone 0438 923248 Fax 07 32877288

Hazardous according to the criteria of Safe Work Australia  
Not classified as hazardous for transport (ADG, UN, IATA/ICAO)  
Classified as a Combustible Liquid C1, AS 1940-1993

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## 2. Composition/Information on Ingredients

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

Chemical Name	CAS #	Proportion	EU Classification
Distillate, Hydrotreated Light	[Proprietary]	10-<30%	Xn; R65
Phosphoric Esters	[Proprietary]	<10%	Xi; R36, R38
Copper-8-Hydroxyquinoline	[10380-28-6]	<10%	N; R51, R53

Ingredients determined not to be hazardous to 100%

Notes on EU Symbols: Xn Harmful, Xi Irritant

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## 3. Hazards Identification

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Harmful: Low viscosity material may cause lung damage if swallowed.  
Irritating to eyes and skin.  
Harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment

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## 4. First Aid Measures

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### 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.

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**5. Fire-Fighting Measures**

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**Flash Point:**

105 degrees Celsius (ASTM D93)

**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.

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**6. Accidental Release Measures**

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**Hazards:**

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

**Clean Water Act/Oil Pollution Act;**

This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to the National Response Center

**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.

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## 7. Handling and Storage

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**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.

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## 8. Exposure Controls/Personal Protection

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**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/m<sup>3</sup> 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/m<sup>3</sup> 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 5mg/m<sup>3</sup> 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 should be worn. Care must be taken while removing gloves and other skin protective equipment to avoid skin contact.

**Respiratory Protection:**

None normally required if good ventilation is maintained. Avoid breathing 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.

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**9. Physical and Chemical Properties**


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<b>Appearance:</b>	Dark green/amber liquid.
<b>Odour:</b>	Slight petroleum distillate odour.
<b>PH Range:</b>	2.8 – 3.8
<b>Specific Gravity:</b>	0.87gm/litre @ 20 degrees Celsius
<b>Solubility in Water:</b>	Negligible
<b>Flash Point:</b>	105 degrees Celsius (ASTM D93)
<b>Vapour Pressure:</b>	Less than 0.1 mm Hg @ 20~C ASTM D 2879

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**10. Stability and Reactivity**


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

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**9. Toxicological Data**


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This product is not classified as dangerous for supply or conveyance. The DMSO extract by IP 346 of the oil is less than 3%. Consequently it is not classified as a carcinogen.

**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.

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

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

**RTECS:** CAS# Proprietary: Distillate, Hydrotreated Light

**LD50/LC50:** Oral rat >5000 mg/kg  
Skin rabbit >3.16gm/kg

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## 12. Ecological Information

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### **Hazard:**

This product is technically harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment; however this product also has negligible solubility so is unlikely to pose a significant long term risk to the environment. Accordingly this material is not expected to present any environmental problems other than those associated with oil spills. 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.

### **Ecotoxicity based on studies on some raw materials:**

Chronic Toxicity to Fish, NOEC: > 5000mg/L (7day) - IUCLID Dataset

Chronic Toxicity to Aquatic Invertebrates, NOEC = 552 mg/L (7day) - IUCLID Dataset

\*\* NOEC: No Observed Effect Concentration (toxicology)

### **ENVIRONMENTAL FATES**

: This material is not expected to present any environmental

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## 13. Disposal Considerations

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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.

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## 14. Transport Information

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Not classified as hazardous for transport (ADG, UN, IATA/ICAO)

Classified as a Combustible Liquid C1, AS 1940-1993

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## 15. Regulatory Information

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### **Australian Classifications:**

UN Number:	NA
HAZCHEM Code:	NA
Dangerous Goods Class	NA
Packaging Group:	NA
EC Labelling:	Xn; R65, Xi; R36/R38, R52/53 S2, S23, S24, S25, S61, S62

**Recommended USA Labeling (interim):**

The label must provide the following general information about the substance:

- (a) the product name; **Cutek Green**
- (b) enough information to enable the USA importer, supplier or manufacturer to be contacted, either in person or by telephone; and
- (c) a 24 hour emergency telephone number
- (d) directions for use, including, where relevant, dilution rates and dose rates.
- (e) the general precautionary statements-

**Read label before use**

**Keep out of reach of children**

**Keep away from flames and hot surfaces**

**In case of fire: Use foam, carbon dioxide, dry chemical**

**Avoid contact with eyes and skin**

**Do not breathe vapour**

**Wear gloves and suitable protective clothing and eye protection**

**Wash hands and skin thoroughly after handling**

**Avoid release to the environment**

- (f) the following response statements-

**If medical advice is needed, have product container or label at hand.**

**IF SWALLOWED: Immediately call a doctor/physician. Do not induce vomiting.**

**IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs get medical advice/attention. Take off contaminated clothing and wash before reuse. If skin irritation persists, get medical advice/attention.**

**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists, get medical advice/attention.**

- (g) The label must provide the following hazard information about the substance:  
the signal word '**warning**';



the GHS pictogram warning explanation mark



the GHS pictogram aspiration hazard

the hazard statement '**combustible liquid**'

the hazard statement '**may be harmful if swallowed and enters airways**'; and

the hazard statement '**causes skin and serious eye irritation**'

the hazard statement '**toxic to aquatic life and terrestrial invertebrates with long lasting effects**'

(h) Disposal Statement-- '**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.**'

(i) The following composition information--

Chemical Name	CAS #	Proportion
Distillate, Hydrotreated Light	[Proprietary]	10-<30%
Phosphoric Esters	[Proprietary]	<10%
Copper-8-Hydroxyquinoline	[10380-28-6]	<10%
<b>Ingredients determined not to be hazardous</b>		<b>to 100%</b>

(j) the following transport information:

**Not classified as hazardous for transport (ADG, UN, IATA/ICAO)  
Classified as a Combustible Liquid C1, AS 1940-1993**

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## 16. Other Information

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### 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.