

MATERIAL SAFETY DATA SHEET

COMPANY DETAILS

Company Name & Address Cardserv Unit1, 18 Salisbury Road Hornsby 2077	Telephone Regular: (02)9482 5222 (Office hours)
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Hazardous according to criteria of Worksafe Australia.

I IDENTIFICATION

Product Name: Citrus Oil Formulation

Other Names: Proper Shipping Name is "FLAMMABLE LIQUID, N.O.S."

UN No: 1993

Hazchem Code: 3[Y]

Dangerous Goods Class: 3 :Flammable Liquid

Sub Risk Class: No Subsidiary Risk.

Packaging Group: III

Most EPGs may now be substituted by the "Initial Emergency Response Guide" available from Standards Australia.

Poison Schedule: Not Scheduled.

Product Type: Organic liquid.

Chemical Family: Surfactant blend in natural plant derived solvent.

Uses: General purpose solvent/cleaner.

Physical appearance & Properties:

Appearance & Odour: Clear colourless liquid. Strong citrus odour.

Melting/softening point: No data. Liquid at normal temperatures.

Boiling point and vapour pressure: 175°C approx at 100kPa

Volatile materials: Nil at 100°C

Flashpoint: 50°C approx.

Specific gravity: 0.85-0.90

Solubility in water: Forms emulsions in water.

Corrosiveness: Not corrosive.

Ingredients:

Chemical entity	CAS No	Proportion %	Worksafe Exposure Limits	
			TWA ₃ mg/m ³	STEL ₃ mg/m ³
d-limonene	5989-27-5	>80	not set	not set
coconut diethanolamide	8051-30-7	<10	not set	not set
fatty alcohol ethoxylate	not defined	<10	not set	not set

This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely.

II HEALTH HAZARD DATA

Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

Acute Effects:

Swallowed: Data suggests that the product should be considered to be harmful by ingestion.

Eye: Data suggests that this product should be classified as possibly irritating to the eyes.

Skin: Data suggests that the product should be classified as not irritating or harmful to the skin.

Inhalation: Data suggests that the product should be considered to be non irritating and non toxic by inhalation.

Primary route of exposure is inhalation and skin and eye contact.

First Aid:

If poisoning occurs, contact a Doctor or Poisons Information Centre.

If swallowed, do NOT induce vomiting. Give a glass of water.

Eye: If this product comes into contact with eyes, hold open and wash with running water.

Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained.

Skin: If this product comes into contact with skin, wash skin with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again.

Inhalation: If mists, dusts or combustion products are inhaled, remove to fresh air. Lay victim down & keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately.

Advice to doctor: Treat symptomatically. Note the nature of this product.

III PRECAUTIONS FOR USE

Risk Phrases are: R22, R36. Harmful if swallowed. Irritating to eyes.

Exposure Standards:

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the significant ingredients in this product. There is a blanket recommendation of 10mg/m³ for inspirable dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. See ingredients section on page 1 of this data sheet.

Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection:

Respiratory Protection: A face mask or respirator may be used when the product is being used in dusty or confined areas. Otherwise it is usually safe to not use respiratory protection.

However, there may be other circumstances where use of a mask or other device is preferred. Use judgement. For help in selecting suitable equipment consult AS/NZS 1715.

Protective Gloves: Rubber, PVC or other protective gloves are not necessary but are desirable, especially if product is being used frequently or for lengthy periods. For help in selecting suitable gloves consult AS 2161.

Eye Protection: Eye protective measures are suggested when using this product. Consult AS 1336 and AS/NZS 1337 for information about eye protection.

Clothing: Clean overalls should be worn, preferably with an apron. Consult AS 2919 for advice on Industrial Clothing.

Safety Boots: Wearing safety boots is advisory. Consult AS/NZS 2210 for advice on Occupational Protective Footwear.

Flammability Limits: No data.

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

IV SAFE HANDLING INFORMATION

Safety Phrases are: S20, S25. When using, do not eat or drink. Avoid contact with eyes.

Storage & Transport:

This material is classed as UN 1993, Class 3 : Flammable Liquid. Not to be transported with Classes 1 (Explosives), 2.1 (Flammable Gases) (nb this applies only when in bulk), 2.3 (Toxic Gases), 4.2 (Spontaneously Combustible Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides) and 7 (Radioactive Substances), foodstuffs or foodstuff empties.

Not a Scheduled Poison. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not come into contact with products listed under "Materials to avoid" below.

Spills and disposals:

In event of a major spill, prevent spillage from entering drains or water courses. Call Fire Brigade or emergency services. As a minimum, wear overalls, goggles and gloves. Stop leak if safe to do so, and contain spill. Absorb onto vermiculite or other absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area, preventing runoff from entering drains. This material may be suitable for approved landfill. Dispose of only in compliance with local, state and federal regulations. Slippery on floors, especially when wet. Launder all contaminated clothing before re-use.

Fire/Explosion Hazard:

There is no explosion hazard from this material under normal circumstances.

Flashpoint: 50°C approx.

Extinguishing Media: carbon dioxide, dry chemical, foam, water fog.

Special Fire fighting procedures: As a minimum, wear overalls, goggles and gloves.

Unusual fire & Explosion hazards: Decomposition products are toxic. There is a moderate risk of an explosion from this product if involved in a fire. Heat may cause violent rupture of containers if involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

Stability: Stable.

Polymerisation: Will not polymerise.

Decomposition Products: carbon dioxide, carbon monoxide and smoke (if combustion is incomplete), water.

Materials to avoid: strong oxidising agents.

V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

Contact Point: Danny Hamilton

Phone: Business Hours: (02) 9482 5222
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National Poisons Information Centre: Dial 13 1126 (from anywhere in Australia)

This MSDS prepared by Kilford & Kilford Pty Ltd, June, 2003
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