

# Material Safety Data Sheet

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Infosafe No. 3NU2O Issue Date : December 2004 ISSUED by CRPCARE

Product Name : **VINCIT C Seed Dressing Liquid**

Classified as hazardous according to criteria of NOHSC

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name** VINCIT C Seed Dressing Liquid  
**Product Code** 1709  
**Product Use** Seed dressing treatment for wheat, barley, oats and triticale to protect against smuts and bunt as per directions for use.  
**Company Name** Crop Care Australasia Pty Ltd (ABN 53 061 362 347)  
**Address** 77 Tingira Street Pinkenba  
Queensland 4008 Australia  
**Emergency Tel.** 1800 033 498  
**Telephone/Telex Number** Tel: (07) 3867 9100 Fax: (07) 3867 9110  
**Product Type** Group C Fungicide  
Group 3A Insecticide

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical** Liquid

### Characterization

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Ethylene glycol	107-21-1	495 g/L
	Cypermethrin	52315-07-8	4 g/L
	Other non hazardous ingredients		Balance
	Flutriafol	76674-21-0	25 g/L
	Dipropylene glycol monomethyl ether	34590-94-8	400 g/L

## 3. HAZARDS IDENTIFICATION

Harmful if swallowed.

**Other Information** Poisons Schedule 6

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person to fresh air until recovered.  
If breathing is difficult, oxygen may be given by a trained person.  
Apply CPR if there is no breathing and NO pulse.  
Obtain medical advice.

**Ingestion** If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust).  
Make every effort to prevent vomit from entering the lungs by careful placement of the patient.  
Seek medical advice immediately.

**Skin** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.  
If irritation persists, seek medical advice.

**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
Seek medical advice immediately.

**First Aid Facilities** If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).

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**Advice to Doctor** Treat symptomatically.  
For exposure to Ethylene Glycol:  
Remove ingested glycol by gastric lavage or emesis.  
Give ethanol to prevent metabolism of ingested ethylene glycol to oxalate.  
Give calcium gluconate, 10ml of 10% solution diluted in 1L of 5% glucose, intravenously as necessary to maintain normal serum calcium levels.  
Give artificial respiration with oxygen if respiration is slowed.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media** Water fog, foam, carbon dioxide or dry chemical.  
**Hazardous** Combustible liquid at high temperatures.  
**Combustion Products** If involved in a major fire, could evolve oxides of carbon or nitrogen.  
**Emergency Action in case of Fire** If exposed to fire, keep container cool by spraying with water.  
If possible, remove other containers from the area of fire.  
**Protective Equipment** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).  
Collect spilled material and waste in sealable open-top type containers for disposal.  
**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.  
**Environmental Precautions** Use earthen bunds or absorbent bunding to prevent spreading of spillage.

## 7. HANDLING AND STORAGE

**Storage** Store in the closed, original container in a cool, well ventilated area.  
Do not store for prolonged periods in direct sunlight.  
Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.  
Store in a locked enclosure.  
Storage of 1000L minibulk container:  
Store this tightly closed container in a safe and secure place away from children, animals, food and feedstuffs. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use, then the integrity of this product cannot be assured. If this occurs the manufacturer should be advised immediately.  
Do NOT store or handle near heat or naked flame.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Ethylene glycol	120		60		
	Dipropylene glycol monomethyl ether	909	150	606	100	

**Personal Protective Equipment** When preparing and using the product wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield.  
**Eng. Controls** Use in a well ventilated area only.  
**Hygiene Measures** After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.  
After each day's use, wash contaminated clothing and safety equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Clear bright red liquid  
**Solubility in Water** Sparingly soluble in water

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**Specific Gravity** 1.05  
(H<sub>2</sub>O=1)

**Partition co-efficient, n-octanol/water**, Kow Log P is 2.3 for flutriafol; and 6.6 for cypermethrin

**Flammability** Combustible

## 10. STABILITY AND REACTIVITY

**Hazardous Polymerization** Hazardous polymerisation is not possible.

**Hazardous Reaction** Keep away from strong oxidising agents, may react violently.

**Conditions to Avoid** Excessive heat and fire.

## 11. TOXICOLOGICAL INFORMATION

**Toxicology Information** No harmful effects are expected if the precautions on the label and this MSDS are followed.

**Inhalation** Inhalation of vapours (from heating), mists or aerosols may produce respiratory irritation.

Headache, low backache, drowsiness and irregular eye movements have been reported when high concentrations of ethylene glycol have been inhaled.

**Ingestion** Initial symptoms following a large dose (>100ml) are those of alcohol intoxication (without the odour of ethanol) progressing to vomiting, cyanosis, headache, muscle tenderness, stupor, convulsions and unconsciousness. Respiratory system involvement may occur 12-24 hours after ingestion. Symptoms may include hyperventilation and rapid shallow breathing. From 24-72 hours, the patient may experience a decrease in urine output, flank pain progressing to renal failure which may be permanent. Death may occur from respiratory failure or pulmonary oedema.

**Skin** Can be absorbed through the skin but not readily absorbed in toxic amounts. Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.

**Eye** May irritate the eyes.

**Chronic Effects** Kidney damage has been noted in laboratory animals that have been fed excessive doses of ethylene glycol.

Evidence from animal studies indicate that repeated or prolonged exposure to flutriafol can result in embryo/foetotoxic effects and liver disorders.

**Reproductive Toxicity** Data indicates no teratogenic effects. Studies in animals have shown that repeated or prolonged exposure to flutriafol may have reproductive effects (not teratogenic).

NOEL: 10 mg/kg/day (rat); and NOEL 7.5 mg/kg/day (rabbit).

**Carcinogenicity** Data indicates no carcinogenic effects.

**Acute Toxicity - Oral** LD50 (rat) 4700 mg/kg for ethylene glycol  
LD50 (rat) 1140 mg/kg for flutriafol  
LD50 (rat) 250-4150 mg/kg for cypermethrin

LDLO Oral lowest lethal dose (human) is 398 mg/kg for ethylene glycol.

**Acute Toxicity - Dermal** LD50 (rat) >1,000 mg/kg for flutriafol

**Acute Toxicity - Inhalation** LC50 (rat) (4hr) 1.6 mg/l for flutriafol  
LC50 (rat) (4hr) 2.5 mg/l for cypermethrin

**Eye Irritation** Ethylene glycol, flutriafol and cypermethrin are mild to slight eye irritants.

**Skin Irritation** Ethylene glycol, flutriafol and cypermethrin are mild to slight skin irritants.

**Skin Sensitisation** Skin contact may produce skin sensations such as numbing, burning and tingling. These sensations are reversible and usually subside within 12 hours.

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**Other Information** The Australian Acceptable Daily Intake (ADI) for flutriafol for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, June 2004).

The Australian Acceptable Daily Intake (ADI) for cypermethrin for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, June 2004).

## 12. ECOLOGICAL INFORMATION

**Known Harmful** Harmful to fish.

### Effects on the Environment

**Other Precautions** Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.  
Do not feed or expose treated seed to wildlife and domestic animals, particularly birds.

**Persistence / Degradability** Average field half life of cypermethrin in soil is 60 days.  
The product is essentially insoluble in water and has low mobility in soil. There is evidence of rapid degradation in soil and hydrolysis in water. The expected half life in water is 5 days. The product is applied to seed for sowing - use pattern restricts movement into the environment.

**Acute Toxicity - Fish** The following is data for the active ingredient, flutriafol.  
LC50 (96 hr) for rainbow trout is 61 mg/l.  
The following is data for the ingredient, cypermethrin.  
LC50 (96 hr) for rainbow trout is 0.00069 mg/l

**Acute Toxicity - Daphnia** LC50 (48 hr) for flutriafol is 78 mg/l.  
LC50 (48 hr) for cypermethrin is 0.00015 mg/l.

**Acute Toxicity - Other Organisms** Not toxic to birds.

LD50 for (flutriafol) mallard ducks, female is >5,000 mg/kg  
LD50 for (cypermethrin) mallard ducks is >10,000 mg/kg  
No threat to bees as product is used as a seed dressing.

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal** On site disposal of the concentrated product is not acceptable.  
Seed treated with this product must not be used for human or animal consumption or be allowed to contaminate seed intended for human or animal consumption. Seed should not be left exposed on the ground (particularly during sowing). Destroy treated seed not intended for sowing.

**Container Disposal** Do not use this container for any other purpose.  
Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.  
drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.  
Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

## 14. TRANSPORT INFORMATION

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It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.

**U.N. Number** None Allocated

**DG Class** None Allocated

**Hazchem Code** None Allocated

**Packing Group** None Allocated

**Storage and Transport** Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 15. REGULATORY INFORMATION

**Risk Phrase** R22 Harmful if swallowed.

**Safety Phrase** S13 Keep away from food, drink and animal feeding stuffs.

S2 Keep out of reach of children.

S46 If swallowed, seek medical advice immediately and show this container or label.

**Poisons Schedule** S6

**Hazard Category** Harmful

**Packaging &** POISON

**Labelling** KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

**Revisions Highlighted** The MSDS was reviewed. Minor changes were made to the information.

...End Of MSDS...