

# SAFETY DATA SHEET

## VINCIT C SEED DRESSING LIQUID



Version 1.0 Revision Date: 06.07.2023 SDS Number: 50001551 Date of last issue: - Date of first issue: 06.07.2023

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : VINCIT C SEED DRESSING LIQUID

#### Recommended use of the chemical and restrictions on use

Recommended use : Agricultural seed dressing.

Restrictions on use : Use as recommended by the label.

#### Manufacturer or supplier's details

Company : FMC Australasia Pty Ltd

Address : Building B, Level 2, 12 Julius Avenue,  
North Ryde NSW 2113  
Australia

Telephone : 1 800 066 355

Telefax : (02) 9923 6011

E-mail address : SDS-Info@fmc.com

Emergency telephone number : For leak, fire, spill or accident emergencies, call:  
1800 033 111 (Ixom)

Medical emergency:  
1 800 033 111 (Transport and 24 h Medical information)

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 2A

Reproductive toxicity : Category 1B

Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Kidney)

#### GHS label elements

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H360 May damage fertility or the unborn child. H373 May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.
Precautionary statements	:	<p><b>Prevention:</b></p> <p>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. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</p> <p><b>Response:</b></p> <p>P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</p> <p><b>Storage:</b></p> <p>P403 Store in a well-ventilated place. P405 Store locked up.</p> <p><b>Disposal:</b></p> <p>P501 Dispose of contents/ container to an approved waste disposal plant.</p>

### Other hazards which do not result in classification

Very toxic to aquatic life with long lasting effects.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
cypermethrin	52315-07-8	< 1
Flutriafol	76674-21-0	< 10
(2-methoxymethylethoxy)propanol	34590-94-8	>= 30 -< 60
N-methyl-2-pyrrolidone	872-50-4	>= 0.3 -< 10
ethanediol	107-21-1	>= 30 -< 60
9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium acetate	64381-99-3	>= 1 -< 3
phosphoric acid	7664-38-2	>= 1 -< 2.5

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.  
Causes serious eye irritation.  
May damage fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure if swallowed.
- Notes to physician : Treat symptomatically.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.

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Unsuitable extinguishing media		: High volume water jet	
Specific hazards during fire-fighting		: Do not allow run-off from fire fighting to enter drains or water courses.	
Hazardous combustion products		: Thermal decomposition can lead to release of toxic and irritating vapors. Carbon oxides Nitrogen oxides (NOx) Fluorinated compounds Hydrogen cyanide	
Specific extinguishing methods		: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.	
Special protective equipment for firefighters		: Wear self-contained breathing apparatus for firefighting if necessary.	
Hazchem Code		: 2X	

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid formation of aerosol.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Neutralize with chalk, alkali solution or ammonia. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling	: Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use.

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Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.
- Conditions for safe storage : No smoking.  
Keep in a well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Do not store near acids.
- Further information on storage stability : No decomposition if stored and applied as directed.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethanediol	107-21-1	TWA (particulate)	10 mg/m <sup>3</sup>	AU OEL
	Further information: Skin absorption			
		TWA (Vapour)	20 ppm 52 mg/m <sup>3</sup>	AU OEL
	Further information: Skin absorption			
		STEL (Vapour)	40 ppm 104 mg/m <sup>3</sup>	AU OEL
	Further information: Skin absorption			
		TWA (Vapour)	25 ppm	ACGIH
		STEL (Vapour)	50 ppm	ACGIH
		STEL (Inhalable fraction, Aerosol only)	10 mg/m <sup>3</sup>	ACGIH
(2-methoxymethyl-	34590-94-8	TWA	50 ppm 308 mg/m <sup>3</sup>	AU OEL

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oxy)propanol				
Further information: Skin absorption				
N-methyl-2-pyrrolidone	872-50-4	STEL	75 ppm 309 mg/m <sup>3</sup>	AU OEL
Further information: Skin absorption				
		TWA	25 ppm 103 mg/m <sup>3</sup>	AU OEL
Further information: Skin absorption				
phosphoric acid	7664-38-2	TWA	1 mg/m <sup>3</sup>	AU OEL
		STEL	3 mg/m <sup>3</sup>	AU OEL
		TWA	1 mg/m <sup>3</sup>	ACGIH
		STEL	3 mg/m <sup>3</sup>	ACGIH

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
N-methyl-2-pyrrolidone	872-50-4	5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

**Personal protective equipment**

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : Clear fluorescent red-pink

Odour : No data available

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pH	:	ca. 3 (1% solution in water)
Melting point	:	Not applicable
Boiling point/boiling range	:	not determined
Flash point	:	not determined
Flammability (liquids)	:	Not expected to be ignitable
Self-ignition	:	No data available
Vapour pressure	:	not determined
Relative density	:	1.045 - 1.065 (20 °C)
Density	:	not determined
Solubility(ies)	:	
Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	Not applicable
Viscosity	:	
Viscosity, kinematic	:	not determined
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Particle size	:	Not applicable

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Stable under recommended storage conditions.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

Not classified based on available information.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

#### **Components:**

##### **cypermethrin:**

Acute oral toxicity : LD50 (Rat, male): 247 mg/kg  
LD50 (Rat, female): 309 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 2.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,460 mg/kg

##### **Flutriafol:**

Acute oral toxicity : LD50 (Rat, male): 1,140 mg/kg  
LD50 (Rat, female): 1,480 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single contact with skin.  
Remarks: no mortality

##### **(2-methoxymethylethoxy)propanol:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: no mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 275 ppm  
Exposure time: 7 h  
Test atmosphere: vapour  
Remarks: no mortality

Acute dermal toxicity : LD50 Dermal (Rabbit, male): 10 ml/kg

##### **N-methyl-2-pyrrolidone:**

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Acute oral toxicity	: LD50 (Rat): 4,150 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC0 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402

### **ethanediol:**

Acute inhalation toxicity	: LC0 (Rat, male and female): > 2.5 mg/l Exposure time: 6 h Test atmosphere: dust/mist Remarks: no mortality
Acute dermal toxicity	: LD50 (Mouse, male and female): > 3,500 mg/kg

### **9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium acetate:**

Acute oral toxicity	: LD50 (Rat): 3,900 mg/kg
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### **phosphoric acid:**

Acute oral toxicity	: LD50 (Rat, female): 2,600 mg/kg Method: OECD Test Guideline 423
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### **Skin corrosion/irritation**

Causes skin irritation.

### **Product:**

Remarks	: May cause skin irritation and/or dermatitis.
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### **Components:**

#### **cypermethrin:**

Species	: Rabbit
Result	: No skin irritation

#### **Flutriafol:**

Species	: Rabbit
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 404
Result	: No skin irritation
GLP	: yes

#### **(2-methoxymethylethoxy)propanol:**

Species	: Human
Result	: No skin irritation

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### N-methyl-2-pyrrolidone:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : irritating

### ethanediol:

Species : Rabbit  
Result : No skin irritation

### 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium acetate:

Method : QSAR  
Result : Corrosive after 4 hours or less of exposure

### phosphoric acid:

Species : Rabbit  
Assessment : Corrosive  
Result : Corrosive after 3 minutes to 1 hour of exposure

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Product:

Remarks : May cause irreversible eye damage.

### Components:

#### cypermethrin:

Species : Rabbit  
Result : Mild eye irritation

#### Flutriafol:

Species : Rabbit  
Result : Slight or no eye irritation  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 405  
GLP : yes

#### (2-methoxymethylethoxy)propanol:

Species : Human  
Result : No eye irritation

### N-methyl-2-pyrrolidone:

Species : Rabbit  
Result : irritating  
Method : OECD Test Guideline 405

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### **ethanedioil;**

Species : Rabbit  
Result : No eye irritation

#### **9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium acetate:**

**Result** : Irreversible effects on the eye  
**Remarks** : Based on skin corrosivity

**phosphoric acid:**

Result : Irreversible effects on the eye  
Remarks : Based on skin corrosivity

#### **Respiratory or skin sensitisation**

### Skin sensitisation

Not classified based on available information.

## Respiratory sensitisation

Not classified based on available information.

**Product:**

**Remarks** : Causes sensitisation.

### **Components:**

### **cypermethrin:**

Species : Guinea pig  
Result : May cause sensitisation by skin contact.

## **Flutriafol·**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Not a skin sensitizer.

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406

#### (2-methoxymethylmethoxy)propanol:

Species : Humans  
Result : Does not cause skin sensitisation.

### N-methyl-2-pyrrolidone:

Method : OECD Test Guideline 429  
Result : Not a skin sensitizer.

### **ethanediol:**

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Test Type : Maximisation Test  
Species : Guinea pig  
Result : Does not cause skin sensitisation.

### **9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium acetate:**

Species : Guinea pig  
Method : QSAR  
Result : Does not cause skin sensitisation.

### **Chronic toxicity**

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **cypromethrin:**

Genotoxicity in vitro : Test system: Salmonella typhimurium  
Result: negative

#### **Flutriafol:**

Genotoxicity in vivo : Test Type: dominant lethal test  
Method: OECD Test Guideline 478  
Result: negative

#### **(2-methoxymethylethoxy)propanol:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative  
  
Test Type: in vitro assay  
Result: negative  
  
Test Type: Chromosome aberration test in vitro  
Result: negative  
  
Test Type: In vitro mammalian cell gene mutation test  
Result: negative  
Remarks: Based on data from similar materials

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

#### **N-methyl-2-pyrrolidone:**

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative  
  
Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
  
Test Type: unscheduled DNA synthesis assay

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Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative

### **ethanediol:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OPPTS 870.5100  
Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Rat  
Application Route: Oral  
Result: negative

### **9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium acetate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative

### **phosphoric acid:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **cypermethrin:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### **Flutriafol:**

Species	:	Mouse
Exposure time	:	2 Years
NOAEL	:	1.2 mg/kg bw/day
Result	:	negative

  

Species	:	Rat
Exposure time	:	2 Years
NOAEL	:	1 mg/kg bw/day
Result	:	negative

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Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

### **(2-methoxymethylethoxy)propanol:**

Species : Rat, male and female  
Application Route : inhalation (vapour)  
Exposure time : 2 years  
Dose : 300, 1000, 3000ppm  
Method : 300 ppm  
Result : OECD Test Guideline 453  
Remarks : negative  
Based on data from similar materials

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

### **N-methyl-2-pyrrolidone:**

Species : Rat, male and female  
Application Route : Oral  
NOAEL : 207 - 283 mg/kg bw/day  
Result : negative

Species : Rat, male  
Application Route : Inhalation  
NOAEC : 0.04 mg/l  
Result : negative

Species : Mouse, male  
Application Route : Oral  
NOAEL : 89 mg/kg body weight  
Method : OECD Test Guideline 451  
Result : negative

### **ethanediol:**

Species : Mouse  
Application Route : Oral  
Exposure time : 24 month(s)  
Result : negative

### **Reproductive toxicity**

May damage fertility or the unborn child.

### **Components:**

#### **Flutriafol:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.  
Animal testing showed no developmental toxicity.

### **(2-methoxymethylethoxy)propanol:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Inhalation

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Dose: 300, 1000, 3000ppm  
General Toxicity - Parent: NOAEL: 300  
General Toxicity F1: NOAEL: 1,000  
General Toxicity F2: NOAEL: 1,000  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

- Effects on foetal development : Test Type: Developmental Toxicity Screening Test  
Species: Rat  
Application Route: Inhalation  
Dose: 0, 50, 150, 300 parts per million  
General Toxicity Maternal: LOAEL: >= 300 part per million  
Teratogenicity: LOAEL: >= 300 part per million  
Result: negative
- Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity
- N-methyl-2-pyrrolidone:**
- Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Method: OECD Test Guideline 416  
Result: positive
- Effects on foetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: positive
- Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

**phosphoric acid:**

- Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Ingestion  
General Toxicity - Parent: NOAEL: 500 mg/kg body weight  
General Toxicity F1: NOAEL: 500 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative
- Effects on foetal development : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 370 mg/kg body weight  
Developmental Toxicity: NOAEL: 370 mg/kg body weight  
Result: negative  
Remarks: Based on data from similar materials

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### STOT - single exposure

Not classified based on available information.

#### Components:

##### **Flutriafol:**

Remarks : No significant adverse effects were reported

##### **N-methyl-2-pyrrolidone:**

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

#### Components:

##### **(2-methoxymethylethoxy)propanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### **ethanediol:**

Exposure routes : Oral  
Target Organs : Kidney  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### Repeated dose toxicity

#### Components:

##### **Flutriafol:**

Species : Rat  
NOAEL : 13.3 mg/kg bw/day  
Application Route : Oral - feed  
Exposure time : 90 d  
Symptoms : anemia, Liver effects

Species : Dog  
NOAEL : 5 mg/kg bw/day  
Application Route : Oral  
Exposure time : 90 d  
Symptoms : anemia, Liver effects

##### **(2-methoxymethylethoxy)propanol:**

Species : Rat, male and female  
NOAEL : 200 mg/kg  
Application Route : Oral  
Exposure time : 4 weeks  
Dose : 40, 200, 1000mg/kg

Species : Rat, male and female  
NOAEL : 200 ppm

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Application Route : inhalation (vapour)  
Exposure time : 13 weeks  
Dose : 15, 50, 200 ppm

Species : Rabbit, male  
NOAEL : 2850 mg/kg bw/day  
Application Route : Dermal  
Exposure time : 90d  
Dose : 1, 3, 5, 10 ml/kg  
Remarks : mortality

### N-methyl-2-pyrrolidone:

Species : Rat, male  
NOAEL : 169 mg/kg  
Application Route : Oral

Species : Mouse, male  
NOAEL : 89 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 408  
Target Organs : Liver

Species : Rabbit  
NOAEL : 826 mg/kg  
Application Route : Dermal

Species : Rat, male  
NOAEL : 3 mg/l  
Application Route : inhalation (vapour)  
Target Organs : Testes

### ethanediol:

Species : Rat  
NOAEL : 150 mg/kg  
Application Route : Oral  
Exposure time : 12 months

Species : Dog  
NOAEL : > 2,200 - < 4,400 mg/kg  
Application Route : Dermal  
Exposure time : 4 weeks  
Method : OECD Test Guideline 410

### phosphoric acid:

Species : Rat, male and female  
NOAEL : 250 mg/kg  
Application Route : Oral - gavage  
Exposure time : 42 - 54 d  
Method : OECD Test Guideline 422

### Aspiration toxicity

Not classified based on available information.

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### Components:

#### **Flutriafol:**

The substance does not have properties associated with aspiration hazard potential.

### **Neurological effects**

### Components:

#### **Flutriafol:**

No neurotoxicity observed in animal studies

### **Further information**

#### Product:

Remarks : No data available

---

## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

### Components:

#### **cypermethrin:**

Toxicity to fish : LC50 (Fish): 0.0028 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): 0.0003 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (algae): 1.3 mg/l  
Exposure time: 96 h  
EC50 (algae): > 0.1 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 0.00003 mg/l  
Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Crustaceans): 0.00004 mg/l  
Exposure time: 21 d

#### **Flutriafol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 61 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 75.7 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test

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Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : IC50 (*Selenastrum capricornutum* (green algae)): 12 mg/l  
Exposure time: 96 h

IC50 (*Scenedesmus subspicatus*): 1.9 mg/l  
Exposure time: 72 h

EBC50 (*Lemna gibba* (duckweed)): 0.65 mg/l  
Exposure time: 7 d

Toxicity to fish (Chronic toxicity) : NOEC (*Oncorhynchus mykiss* (rainbow trout)): 6.2 mg/l  
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0.31 mg/l  
Exposure time: 21 d

Toxicity to soil dwelling organisms : NOEC (*Eisenia fetida* (earthworms)): 0.01 mg/cm<sup>2</sup>  
Exposure time: 180 d

Toxicity to terrestrial organisms : LD50 (*Apis mellifera* (bees)): > 144  
End point: Acute oral toxicity  
Method: OECD Test Guideline 213  
GLP: yes

LD50 (*Apis mellifera* (bees)): > 150  
End point: Acute contact toxicity  
Method: OECD Test Guideline 214  
GLP: yes

LDD50 (*Apis mellifera* (bees)): 14  
Exposure time: 10 d  
End point: Acute oral toxicity  
Method: OECD TG 245  
GLP: yes

LD50 (*Anas platyrhynchos* (Mallard duck)): > 5,000 mg/kg

### (2-methoxymethylethoxy)propanol:

Toxicity to fish : LC50 (*Poecilia reticulata* (guppy)): > 1,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (*Daphnia magna* (Water flea)): 1,919 mg/l  
Exposure time: 48 h  
Test Type: static test

LC50 (*Crangon crangon* (shrimp)): > 1,000 mg/l  
Exposure time: 48 h  
Test Type: semi-static test

Toxicity to algae/aquatic plants : NOEC (*Pseudokirchneriella subcapitata* (green algae)): 969

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plants	mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	EC50 (Pseudokirchneriella subcapitata (green algae)): > 969 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): > 0.5 mg/l Exposure time: 22 d Test Type: flow-through test Remarks: No toxicity at the limit of solubility
<b>N-methyl-2-pyrrolidone:</b>	
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1,000 mg/l Exposure time: 24 h  LC50 (Palaeomonetes vulgaris (Grass shrimp)): 1,107 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): 600.5 mg/l Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 12.5 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to microorganisms	: EC50 (activated sludge): 100 mg/l Exposure time: 48 h  EC50 (activated sludge): > 600 mg/l Exposure time: 30 min
<b>ethanediol:</b>	
Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 72,860 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: IC50 (Pseudokirchneriella subcapitata (green algae)): 10,940 mg/l Exposure time: 96 h
Toxicity to fish (Chronic tox-)	: (Menidia peninsulae (tidewater silverside)): 1,500 mg/l

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icity) Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : (Daphnia magna (Water flea)): 33,911 mg/l  
Exposure time: 21 d

Toxicity to microorganisms : (activated sludge): > 1,995 mg/l  
Exposure time: 30 min  
Method: ISO 8192

### **9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium acetate:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 133.81 mg/l  
Exposure time: 48 h  
Method: QSAR

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

### **phosphoric acid:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 3 - 3.25 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### **Persistence and degradability**

#### **Components:**

##### **cypermethrin:**

Biodegradability : Result: Not readily biodegradable.

##### **Flutriafol:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Remarks: Does not readily hydrolyze

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### (2-methoxymethylethoxy)propanol:

Biodegradability : Inoculum: activated sludge  
Result: Readily biodegradable.  
Method: OECD Test Guideline 301F

### N-methyl-2-pyrrolidone:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 73 %  
Exposure time: 28 d

### ethanediol:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90 - 100 %  
Exposure time: 10 d  
Method: OECD Test Guideline 301A

### 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium acetate:

Biodegradability : Concentration: 100 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d

### phosphoric acid:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

### Bioaccumulative potential

#### Components:

##### Flutriafol:

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 7  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2.29

### (2-methoxymethylethoxy)propanol:

Partition coefficient: n-octanol/water : log Pow: 0.004 (25 °C)

### N-methyl-2-pyrrolidone:

Partition coefficient: n-octanol/water : log Pow: -0.46 (25 °C)

### ethanediol:

Partition coefficient: n-octanol/water : log Pow: -1.36

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### 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium acetate:

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 3.16  
Temperature: 25 °C

Partition coefficient: n-octanol/water : log Pow: 3.078 (25 °C)

### Mobility in soil

#### Components:

##### **Flutriafol:**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Remarks: Very persistent in soil.

### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

#### Components:

##### **Flutriafol:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.  
Toxic to aquatic life with long lasting effects.

##### **phosphoric acid:**

Additional ecological information : Harmful effects on aquatic organisms also due to pH shift.

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## SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 3352  
Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC  
(Cypermethrin)  
Class : 6.1  
Packing group : III  
Labels : 6.1

##### IATA-DGR

UN/ID No. : UN 3352  
Proper shipping name : Pyrethroid pesticide, liquid, toxic  
(Cypermethrin)  
Class : 6.1  
Packing group : III  
Labels : Toxic  
Packing instruction (cargo aircraft) : 663  
Packing instruction (passenger aircraft) : 655  
Environmentally hazardous : yes

##### IMDG-Code

UN number : UN 3352  
Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC  
(Cypermethrin)  
Class : 6.1  
Packing group : III  
Labels : 6.1  
EmS Code : F-A, S-A  
Marine pollutant : yes

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### ADG

UN number : UN 3352  
Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC  
(Cypermethrin)  
Class : 6.1  
Packing group : III  
Labels : 6.1  
Hazchem Code : 2X

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons : Schedule 6

APVMA Code: 30255

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

#### The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory  
TSCA : Product contains substance(s) not listed on TSCA inventory.  
AIIC : Not in compliance with the inventory  
DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.  
Flutriafol  
cypermethrin  
ENCS : Not in compliance with the inventory  
ISHL : Not in compliance with the inventory  
KECI : Not in compliance with the inventory  
PICCS : Not in compliance with the inventory  
IECSC : Not in compliance with the inventory  
NZIoC : Not in compliance with the inventory  
TECI : Not in compliance with the inventory

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### SECTION 16. OTHER INFORMATION

Revision Date : 06.07.2023  
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### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
AU OEL	: Australia. Workplace Exposure Standards for Airborne Contaminants.
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
AU OEL / TWA	: Exposure standard - time weighted average
AU OEL / STEL	: Exposure standard - short term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

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