

Infosafe No™ 3NUWN	Issue Date : June 2016	ISSUED by CRPCARE
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 Product Name **Comet 400 Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	Comet 400 Herbicide
<b>Product Code</b>	0934
<b>Product Type</b>	Group I Herbicide
<b>Company Name</b>	Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
<b>Address</b>	Unit 17/16 Metroplex Avenue Murarrie Queensland 4172 Australia
<b>Telephone/Fax Number</b>	Tel: +61 7 3909 2000 Fax: +61 7 3909 2010
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For the control of a wide range of broadleaf weeds in fallow, lucerne, maize, millets, pastures, poppies, sorghum, sugar cane, sweetcorn and winter cereals. Also for the control of woody weeds in agricultural non-crop areas, commercial and industrial areas, forests, pastures and rights of way, as specified in the Directions for Use table on the label.
<b>Other Information</b>	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	TR1 Toxic to Reproduction: Category 1 ED1 Eye Damage/Irritation: Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H360 May damage fertility or the unborn child. H318 Causes serious eye damage.
<b>Pictogram (s)</b>	Corrosion, Health hazard, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required.
<b>Precautionary statement – Response</b>	P280 Wear protective gloves, clothing, eye AND face protection. P308+P313 IF exposed or concerned: Get medical advice/attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.
<b>Other Information</b>	Poisons Schedule S5

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Fluroxypyr (present as the methylheptyl ester)	81406-37-3	400 g/L
	Liquid Hydrocarbons	64742-94-5	316 g/L
	N-Methyl-2-pyrrolidone	872-50-4	100 g/L
	Other non-hazardous ingredients		Balance

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#### 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered.
<b>Ingestion</b>	Rinse mouth and then drink plenty of water. Do not give anything by mouth to a semi-conscious or unconscious person. 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.
<b>Skin</b>	Remove contaminated clothing and wash before re-use. Wash affected areas thoroughly with soap and water. If irritation persists, seek medical advice.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Advice to Doctor</b>	Treat symptomatically. If vomiting occurs, solvent present may cause pulmonary pneumonitis.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical. Avoid using large volumes of water which would spread the product.
<b>Hazards from Combustion</b>	May emit toxic fumes of hydrogen chloride, hydrogen fluoride or phosgene if involved in fires or exposed to extreme heat.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus should be worn when fighting a fire in which this product is involved.

#### 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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. On-site disposal of concentrate is not acceptable.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Clean-up Methods - Large Spillages</b>	Place damaged containers in recovery bins (if available) and return to manufacturer. If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas, as possible, before absorbing remaining material into vermiculite or other absorbent.
<b>Environmental Precautions</b>	This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Use earthen bunds or absorbent bunding to prevent spreading of spillage.

#### 7. Handling and storage

<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
<b>Tank Cleaning</b>	See label for detailed information on cleaning of spray equipment.
<b>Other Information</b>	This product may be damaging to susceptible crops during growing and dormant periods. Always read the label and any attached leaflet before use.

#### 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	Safe Work Australia has set the following exposure standard for N-Methyl Pyrrolidone : TLV (TWA) 103 mg/m <sup>3</sup> , STEL 309 mg/m <sup>3</sup> . SK 'SK' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur. The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m <sup>3</sup> ; 15ppm TWA, as total hydrocarbon.
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<b>Appropriate engineering controls</b>	Use in a well ventilated area only. No special ventilation required.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.
<b>Hygiene Measures</b>	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.
<b>Requirements Concerning Special Training</b>	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Amber liquid
<b>Odour</b>	Typical solvent odour.
<b>Boiling Point</b>	~200°C (solvent)
<b>Solubility in Water</b>	Disperses in water.
<b>Specific Gravity</b>	1.136
<b>pH</b>	5 (1% solution)
<b>Vapour Pressure</b>	0.02 mPa @ 20°C
<b>Volatile Component</b>	30%
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 4.53 (pH5)
<b>Flash Point</b>	105°C
<b>Flammability</b>	Combustible liquid C1. (AS1940).

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions. Hydrolyses at pH >9.
<b>Possibility of hazardous reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) >2000 mg/kg for fluroxypyr methyl heptyl ester
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for fluroxypyr methyl heptyl ester
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >1.0 mg/l for fluroxypyr methyl heptyl ester (highest attainable concentration)
<b>Ingestion</b>	Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.
<b>Inhalation</b>	When applying the product as a spray avoid breathing in spray mist. High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.
<b>Skin</b>	Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
<b>Eye</b>	Will irritate the eyes. Prolonged contact with the concentrate may cause damage to the eye.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Reproductive Toxicity</b>	Evidence from animal studies suggests the potential for developmental toxicity on repeated or prolonged exposure to N-Methyl pyrrolidone (NMP).
<b>Chronic Effects</b>	Based on available data, repeated exposures are not anticipated to cause



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**Serious eye damage/irritation** additional significant adverse effects.  
The product is an eye irritant.

**Skin corrosion/irritation** The product is a skin irritant.

**Other Information** The Australian Acceptable Daily Intake (ADI) for fluroxypyr for a human is 0.2 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 20 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: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', December 2015).

## 12. Ecological information

**Persistence and degradability** Half life in soil is typically 153 days.

**Environmental Protection** Spray drift can cause damage, read the label for more information.

**Acute Toxicity - Fish** The following is data for a similar product.  
LC50 (96hr) for rainbow trout is 3.5 mg/l

**Acute Toxicity - Daphnia** EC50 (48hr) for daphnia is 0.8 mg/l for a formulated product of lower concentration.

**Acute Toxicity - Other Organisms** Birds: Not toxic to birds. LD50 for mallard ducks and bobwhite quail is >2000 mg/kg  
Bees: Not toxic to bees. LD50 >100 µg/bee.

## 13. Disposal considerations

**Product Disposal** On site disposal of the concentrated product is not acceptable.  
Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

**Container Disposal** Do not use this container for any other purpose.  
Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point.  
If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility.  
If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government 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.  
DO NOT burn empty containers or product.

## 14. Transport information

**Storage and Transport** Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

**UN Number (Sea Transport)** For bulk shipments as Class 9, use UN 3082, HazChem code 2X.  
3082

**IMO Class/Packing Group** Class 9; Packing Group III



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**IMO Marine Pollutant** Marine Pollutant  
**IMO Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains Fluroxypyr meptyl)

## 15. Regulatory information

**Regulatory Information** Australia: WHS regulations (2011) - Schedule 11: classification not listed.  
**Poisons Schedule** S5  
**Packaging & Labelling** CAUTION  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
**Other Information** This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 61667.

## 16. Other Information

**Date of preparation or last revision of SDS** 08/06/2016  
**Literature References** Review report for the active substance Fluroxypyr 6848/VI/98 - final European Commission - Directorate General Health & Consumer Protection 15 December 1999.  
**Contact Person/Point** Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498  
**Revisions Highlighted** First Issue  
...End Of MSDS...

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