



MATERIAL SAFETY DATA SHEET

CARFENTRAZONE 400EC

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name	: CARFENTRAZONE 400EC
Common Name	: Carfentrazone-ethyle
Formulation	: Carfentrazone 400 g/l Emulsifiable concentrate
Chemical class (IUPAC)	: Herbicide : ethyl 2-chloro-3-[2-chloro-4-fluoro-5-(4-difluoromethyl-4,5-dihydro-3-methyl-5-oxo-1H-1, 2, 4-triazol-1-yl) phenyl] propionate
CAS No.	: 128639-02-1
Molecular weight	: 412.2
Chemical Formula	: C ₁₅ H ₁₄ Cl ₂ F ₃ N ₃ O ₃
Supplier	: ANGLO GULF LIMITED
Address	: P.O. Box 16887, Jebel Ali, Dubai, U.A.E.
Tel	: +9714 8835039
Fax	: +9714 8835853
E-mail	: agadxgme@emiraes.net.ae
Website	: www.anglogulf.ae
Synonyms and code number:	F8426, F116426
Recommended use	: For the control of certain annual broadleaf weeds in winter cereals and Pyrethrum as per the Directions for Use table on the label.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Concentration (g/l)
Carfentrazone Technical	128639-02-1	400
Aromatic hydrocarbon Solvent		500
Other ingredients non hazardous		100

3. HAZARD IDENTIFICATION

Hazard Classification

Classified as hazardous according to criteria of NOHSC

HAZARDOUS SUBSTANCE.

NON-DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.

Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s) Classified as hazardous according to criteria of NOHSC

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness and cracking.

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R67 Vapours may cause drowsiness and dizziness

Safety Phrase(s) S13 Keep away from food, drink and animal feeding stuffs.

S2 Keep out of reach of children.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Other Information Poisons Schedule: Not Scheduled

4. FIRST AID MEASURES AND PRECAUTIONS

Inhalation Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.

Ingestion Rinse mouth and then drink plenty of water. 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.

Skin Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.

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

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

Advice to Doctor Treat symptomatically. If vomiting occurs, solvent present may cause pulmonary pneumonitis.

5. FIRE FIGHTING MEASURES

Fire and explosion hazard:

Flash point: > 48 °C.

This material is flammable.

Extinguishing agents

Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for fire fighting for later disposal.

Fire fighting

Remove spectators from surrounding area. Remove container from fire area if possible. Eliminate all ignition sources in immediate area. Fight fire from maximum distance. For massive fire, use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours. Keep upwind.

Personal protective equipment

Fire may produce irritating or poisonous vapours (toxic fumes of CO, CO₂, chloride and hydrogen bromide, phosphoric acid and phosphorus pent oxide), mists or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Spills & Disposal Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).

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Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Environmental Precautions This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

7. HANDLING AND STORAGE REQUIREMENTS

Handling

Remove sources of naked flame or sparks. Harmful by absorption, or if swallowed or inhaled. Avoid contact with eyes, prolonged contact with skin, and inhalation of mist and vapour. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the insecticide gets inside. Then wash skin thoroughly using a nonabrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage

The product must be kept under lock and key. Keep out of reach of unauthorized persons, children and animals. Store in its original labeled container in cool (avoid temperature above 40 °C), well-ventilated dry area, away from heat, sparks and other sources of ignition. Product hydrolyses rapidly in aqueous alkaline solutions. Avoid cross contamination with other pesticides and fertilizers. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

National Exposure Standards

The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m³; 15ppm TWA, as total hydrocarbon.

Engineering Controls

Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment

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 rubber gloves and face shield or goggles.

Re-entry period: Do not enter treated area until spray has dried.

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.

Requirements Concerning Special Training

NSW regulations require that people who use pesticides in their job or business.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Appearance	: Clear liquid.
Boiling Point	: 220-290°C (for solvent)

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Solubility in Water	: Forms an emulsion in water.
Specific Gravity	: 1.07
Vapour Pressure	: 0.016 mPa @ 25°C for Carfentrazone ethyl
Vapour Density (Air= 1)	: >1 (solvent)
Octanol/Water Partition Coefficient:	Kow Log P is 3.36 for Carfentrazone-ethyl
Flash Point	: >48°C
Flammability	: Combustible liquid C1.
Auto-Ignition Temperature	: > 450°C solvent

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Hydrolyses at pH >7.

Hazardous Reactions Keep away from strong oxidising agents.

Hazardous Polymerization Hazardous polymerization is not possible.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

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

Inhalation High vapour concentrations of the solvent while handling the concentrate is irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.

Ingestion If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or other lung damage.

Skin Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.

Eye The concentrate will cause irritation of the eyes. Possible symptoms include redness, swelling, tearing and pain.

Chronic Effects Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Acute Toxicity - Oral LD50 (female, rat) >4,000 mg/kg for the product

Acute Toxicity – Dermal LD50 (rabbit) >4,000 mg/kg for the product

Acute Toxicity – Inhalation LC50 (rat) (4hr) >6 mg/l

Other Information The Australian Acceptable Daily Intake (ADI) for Carfentrazone-ethyl for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 3 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 Office of Chemical Safety, 'ADI List', September 2007).

12. ECOLOGICAL INFORMATION

Other Precautions Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

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

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Acute Toxicity - Fish The following is data for the active ingredient, Carfentrazone-ethyl.

Not toxic to fish. LC50 (96 hr) for various species is 1.6 – 4.3 mg/l.

Acute Toxicity – Daphnia LC50 (96hr) for daphnia is 9.8 mg/l.

Acute Toxicity - Other Organisms

Birds: Not toxic to birds. LD50 for quail is >1000 mg/kg

Bees: Not toxic to bees. LD50 >100 (contact) µg/bee.

13. DISPOSAL CONSIDERATION

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 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. drum MUSTER 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 drum Muster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill.

If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Transport Information

Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Storage and Transport

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

UN Number (Sea Transport) 3082

IMO Class/Packing Group Class 9; Packing Group III

IMO Marine Pollutant Marine Pollutant

IMO Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Carfentrazone Ethyl)

15. REGULATORY INFORMATION

Packaging & Labelling CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Harmful

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

16. OTHER INFORMATION

Disclaimer

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or nonstandard uses of the product or where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof

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