

FARM-AG INTERNATIONAL (Pty) Ltd

P.O. Box 1523, Durban 4000

Head Office : 61 Marshall Dr., Old Mill Industrial Park, Mount Edgecombe South Africa

Registration Number: 2005/011761/07

Tel + 27 31 003 3486 • Fax + 27 31 502 5825

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Substance: Diclosulam
Product Name: HUMBOLT 840 WG
Product Use: Herbicide
Creation Date: 31 July 2015
Revision Date: March 2021

24 Hr Emergency Number: 082 771 2712

In case of Poisoning:
 Poison Information Centre 082 446 8946
 Tygerberg Hospital: (021) 931 6129
 Poison Emergency Enquiries (021) 689 5227

In case of Spillage:
 HAZMAT: 0800 147 112

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Common Name: diclosulam
Chemical Name: 2',6'-dichloro-5-ethoxy-7-fluoro[1,2,4]triazolo[1,5-c] pyrimidine-2-sulfonanilide (IUPAC)
CAS No.: 145701-21-9
Chemical Family: Triazolopyrimidine
Chemical Formula: C₁₃H₁₀Cl₂FN₅O₃S
Molecular weight: 406.2
Use: Use in tank mixtures for pre- emergence control of annual grasses, broadleaf weeds and under certain conditions, yellow nutsedge in groundnuts and soybeans.
Formulation: Diclosulam: 840 g/kg
 Water Dispersible Granules

Hazardous Ingredient:

<u>Inert:</u>	<u>concern:</u>	<u>% present:</u>
diclosulam	irritant	84 %
sodium sulphate	irritant	± 2%
polyethylene glycol	irritant	± 3%
Other inert	none	Up to 100%

SYMBOLS: Xi
RISK-PHRASE(S): R36/R38, R52

SECTION 3 - HAZARD IDENTIFICATION**Toxicity class:**

WHO (a.i.) U; EPA (formulation): III

Main Hazard:

Causes skin irritation. May be harmful if inhaled. Causes serious eye irritation. Harmful to aquatic life.

Fire and explosion hazard:

Product is not flammable.

Environmental hazards:

Harmful to aquatic life

Effects and Symptoms:

Toxic by inhalation

Ingestion:

Toxic by ingestion.

Skin contact:

Toxic by skin absorption.

Eye contact:

Causes serious eye irritation

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SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS

FIRST AID:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Flammable properties:

Not flammable or combustible.

Extinguishing agents:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides (NOx), sulphur oxides, hydrogen chloride gas, hydrogen fluoride

Further information

No data available

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions:

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions:

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill:

Keep out unprotected persons and animals. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

For spills: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Keep spectators away. Ventilate closed spaces before entering.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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 shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Not to be stored next to foodstuffs and water supplies. Store at room temperature. Local regulations should be complied with.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

PROTECTION Contains no substances with occupational exposure limit values.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

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For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**Appearance:** Granules**Colour:** Light yellow to brown.**Flammability:** Not flammable.**Odour:** No distinctive odor**pH :** 5.0 – 8.0 (10% mixture in water)**Bulk density:** 35-60lbs/ft³**Explosive properties:** None**Solubility in water:** Disperses in water**Storage stability:** Stable under normal conditions, with a shelf life of 2 years when stored under normal warehouse conditions in normal air and light conditions.**SECTION 10 - STABILITY AND REACTIVITY****Storage stability:**

Stable for up to 2 years under normal warehouse and field conditions.

Incompatibility : (Specific materials to avoid)

None reasonably foreseeable

Hazardous decomposition:

If product is involved in a fire, oxides of nitrogen, oxides of sulfur, and halogen derivatives may be formed.

SECTION 11 - TOXICOLOGICAL INFORMATION**Acute oral LD₅₀ rats:** >5000 mg/kg**Acute dermal LD₅₀ rabbits:** >2 000 mg/kg**Inhalation LC₅₀ rats:** >6.7 mg/l air (4h)**Acute eye irritation:** May cause pain disproportionate to the level of irritation to eye tissues. May cause moderate eye irritation**Acute skin irritation:** Prolonged skin contact is unlikely to result in absorption of harmful amounts. Brief contact may cause moderate skin irritation with local redness.**Sensitisation in guinea pig:** None.**CANCER INFORMATION:**

Methylene chloride has been shown to increase the incidence of malignant tumors in mice and benign tumors in rats. Other animal studies, as well as several human epidemiology studies, failed to show a tumorigenic response. Methylene chloride is not believed to pose a measurable carcinogenic risk to man when handled as recommended. Studies have shown that tumors observed in mice are unique to that species.

TERATOLOGY (BIRTH DEFECTS):

Methylene chloride has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals. Methanol has caused birth defects in mice at doses non-toxic to the mother as well as slight behavioral effects in offspring of rats.

REPRODUCTIVE EFFECTS: Diclosulam, methylene chloride and methanol, in animal studies, did not interfere with reproduction.**MUTAGENICITY:** For diclosulam, in-vitro and animal genetic toxicity studies were negative.

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ADI: 0.05 mg/kg (cRfD)

SECTION 12 - ECOLOGICAL INFORMATION**MOVEMENT & PARTITIONING:**

Based largely or completely on information for diclosulam. Bioconcentration potential is low (BCF <100 or Log Pow<3).

ECOTOXICOLOGY:Based largely or completely on information for diclosulam. Material is slightly toxic to aquatic organisms on an acute basis (LC₅₀/EC₅₀ between 10 and 100 mg/L in most sensitive species).**SECTION 13 - DISPOSAL CONSIDERATION****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated Packaging

Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN No.: 3077

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, solid, n.o.s (Diclosulam 840 g/kg)

MARINE POLLUTANT**SECTION 15 - REGULATORY INFORMATION**

Symbol: Xi

Indication of Danger: Irritant

Risk phrases:

R36 Irritating to eyes

R38 Irritating to skin

R52 Harmful to aquatic organisms

Safety phrases :

S 1/2 Keep locked up and out of reach of children.

S 13 Keep away from food, drink and animal feed stuff.

S 20/21 When using do not eat, drink or smoke.

S 22 Do not breathe dust

S 24/25 Avoid contact with skin and eyes.

S 28 After contact with skin, wash immediately with plenty of water and non-abrasive soap.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 16 - OTHER INFORMATION**Packing and Labelling:**

Packed in 1, 5, 10, 12, 15, 20, 25 bags and labelled according to the South African regulations and guidelines.

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 non-standard uses of the product or where instructions or recommendations are not followed.

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