

**SECTION 1 - PRODUCT & COMPANY IDENTIFICATION**

ARYSTA LifeScience South Africa (Pty) Ltd
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Product Name: **KARMEX DF**
Product Use: Herbicide
Creation Date: July 2011
Revision Date: August 2017

24 Hr Emergency Number:**In case of Poisoning:**

Poisons Helpline 0861 555 777

In case of Spillage:

HAZMAT: 0800 147 112

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Common Name: **Diuron**
Chemical Name: **3-(3,4-dichlorophenyl)-1,1-dimethylurea (IUPAC)**
Chemical family: **Urea**
Use: **Selective and total weed control, systemic herbicide**
Formulation: **C₉H₁₀Cl₂N₂O**

Hazardous ingredients of toxicological concern:

<u>Inert:</u>	<u>concern:</u>	<u>% present:</u>
Diuron	harmful, irritant	> 80 %

Symbol: Xn, N
Indication of Danger: Harmful, Environmentally Hazardous Substance

RISK-PHRASE(S) R48/22, R40

SECTION 3 - HAZARD IDENTIFICATION

Ingestion: Poisonous if swallowed
Eye Contact: Irritating to eyes.

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS**Inhalation:**

Remove patient from exposure, keep warm and at rest. Obtain medical attention.

Skin contact:

Take off immediately all contaminated clothing. Wash skin immediately with cold water, followed by soap and water. Such action is essential to minimise contact with skin. Contaminated clothing should be washed before re-use.

Eye contact:

Immediately irrigate with eyewash solution or clean water, holding eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

Ingestion:

Seek medical advice immediately and show the container label or this Data Sheet, if possible. DO NOT induce vomitin.

Further Medical treatment:

No antidote known. Symptomatic and supportive therapy as indicated.

MATERIAL SAFETY DATA SHEET



SECTION 5 - FIRE-FIGHTING MEASURES

Keep fire exposed containers cool by spraying with water.

Extinguishing Media:

For small fires, use foam, carbon dioxide, dry powder or halon extinguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

Fire Fighting Protective Equipment:

A self-contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions:

For personal protection see Section 8.

Occupational spill:

Ensure suitable personal protection during removal of spillage. This means wearing eye protection, chemically resistant gloves, boots and coveralls. Absorb spillage onto sand, earth or any suitable absorbent material. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains. Spillage or uncontrolled discharges into water courses must be alerted to the Department of Water Affairs/Environment.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Handling: Read the label before use. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

Storage: Store under lock and key. Keep in original container, tightly sealed. Store in a cool, dry place away from farm feeds and food stuff.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

When using this product refer to label for details. Nitrile rubber gloves and eye protection (goggles or face shield) must be worn when handling this product

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light brown to off-white granules
Odour:	None
Flash point:	Not applicable
Odor	None
Density (g/ml)	Unknown
Flash point	Does not flash
Solubility (g/l)	> 95%

SECTION 10 - STABILITY AND REACTIVITY

Storage Stability:

The product is stable at room temperature in normal warehouse conditions in original packaging.

Hazardous decomposition Product(s):

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Combustion or thermal decomposition will evolve toxic and irritant vapours.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Effects:

Eyes:	Irritating to eyes.
Skin:	Contact with skin may cause irritation.
Ingestion:	Harmful by ingestion.
Oral LD₅₀:	> 2,500 mg/kg (rat).
Dermal LD₅₀:	> 5,000 mg/kg (rat).
Inhalation:	Unlikely to cause harmful effects under normal conditions of handling and use.
Chronic toxicity:	
Teratogenicity:	

SECTION 12 - ECOLOGICAL INFORMATION

Effect on Aquatic life:

ECOTOXICOLOGY:	No information available
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SECTION 13 - DISPOSAL CONSIDERATION

Pesticide and container disposal:

Do not contaminate rivers, dams or any other water source with chemical or used containers. Drain and triple rinse containers and then destroy by perforation and flattening. Bury in an approved dumping site. Do not re-use containers for any other purpose.

SECTION 14 - TRANSPORT INFORMATION

UN No.:	3077
Road Transport ADR/IRD:	
Class:	9
Packing group:	III
Shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIURON 800 G/KG)

This product is considered a Marine Pollutant.

SECTION 15 - REGULATORY INFORMATION

Symbol:	Xn
Indication of danger:	Harmful, Environmentally Hazardous Substance
Risk phrases:	
R48/22:	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R40:	Limited evidence of a carcinogenic effect

Safety phrases:

S 2	Keep out of the reach of children.
S 24/25	Avoid contact with skin and eyes.
S 60	This material and its container must be disposed of as hazardous waste.
S 61	Avoid release to the environment. Refer to special instructions/safety data sheets.

SECTION 16 - OTHER INFORMATION

MATERIAL SAFETY DATA SHEET

Issued by: Arysta Lifescience South Africa
Poisons Helpline 0861 555 777

Phone: 031 5389700
Spillage Helpline (HAZMAT) 0800 147 112



Packaging:

Packed in 5, 10, 20 and 25 kg HDPE bags and labelled according to 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 nonstandard uses of the product nor 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.

MATERIAL SAFETY DATA SHEET