

Safety Data Sheet

Issue Date: 07-Nov-2018 Revision Date: 07-Nov-2018 Version 1

1. IDENTIFICATION

Product identifier

Product Name Karmex DF

Other means of identification

SDS # ADAMA-272

Registration Number(s) Pest Control Product Reg. No. 28543

UN/ID No UN3077

Recommended use of the chemical and restrictions on use

Recommended Use Pesticide.

Details of the supplier of the safety data sheet

Manufacturer Address

ADAMA Agricultural Solutions Canada Ltd. 300-191 Lombard Avenue Winnipeg, Manitoba R3B 0X1 1-855-264-6262

Emergency telephone number

Emergency Telephone For fire, spill and/or leak contact INFOTRAC:

1-800-535-5053 (North America) 1-352-323-3500 (International)

For medical emergencies and health/safety inquiries, contact ProPharma Group:

1-877-250-9291

2. HAZARDS IDENTIFICATION

This chemical is a product registered by the Canadian Pest Control Products Act and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-PCPA registered chemicals. Please see Section 15 for additional information. This product has been classified according to Canada's Hazardous Product Regulations (WHMIS 2015).

Appearance Beige pellets Physical state Solid Odor Odorless

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (repeated exposure)	Category 2

Signal Word Warning

Hazard statements

Harmful if inhaled

May cause damage to organs through prolonged or repeated exposure



Precautionary Statements - Prevention

Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a poison center or doctor/physician if you feel unwell

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Diuron	330-54-1	77.6-82.4

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

Description of first aid measures	Descri	otion	of fir	st aid	measures
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General Advice IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. When

possible, have the product container or label with you when calling a poison control center

or doctor or going for treatment.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at

least 15 minutes. Consult a physician if necessary.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do not induce vomiting without medical advice. Immediately call

a poison center or doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms Irritating to eyes, respiratory system & skin. Ingestion may cause drowsiness, hyperreflexia,

irritability, diarrhea, hyperthermia and weight loss. Extreme overexposure may cause glycosuria, proteinuria, and aciduria. Long term exposure may also cause enlarging of the liver and/or spleen. May aggravate pre-existing skin conditions. Inhalation may aggravate

respiratory problems.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Water spray (fog). Foam.

Small Fire Dry chemical or CO2.

Large Fire Use foam or water spray.

Unsuitable Extinguishing Media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific Hazards Arising from the Chemical

Negligible fire hazard.

Hazardous combustion products Nitrogen oxides (NOx). Hydrogen chloride.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard

area. Keep unnecessary and unprotected personnel from entering.

Environmental precautions

Environmental precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up

and shovel into suitable containers for disposal. Dispose of in accordance with federal,

state and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special

instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing.

Use only outdoors or in a well-ventilated area.

Conditions for safe storage, including any incompatibilities

Storage Conditions Do not contaminate water, food, or feed by storage or disposal. Keep/store only in original

container. Store locked up. Store at ambient conditions. Protect from excessive heat. Keep

container tightly closed and store in a cool, dry and well-ventilated place.

Packaging Materials Do not reuse container.

Incompatible Materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diuron 330-54-1	TWA: 10 mg/m ³	(vacated) TWA: 10 mg/m ³	TWA: 10 mg/m ³

Appropriate engineering controls

other engineering controls to keep worker exposure to airborne contaminants below any

recommended or statutory limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and Body ProtectionWear appropriate clothing to prevent repeated or prolonged skin contact. Wear long-

sleeved shirt, long pants, and shoes plus socks. Use chemical resistant gloves, such as

P.V.C., butyl-rubber, nitrile-rubber, or neoprene.

Respiratory Protection NIOSH-approved respirator or mask in the absence of adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash face, hands

and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash it before reuse. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other

laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid

AppearanceBeige pelletsOdorOdorlessColorBeigeOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 6.8-7.9

Melting point / freezing point

Boiling point / boiling range
Flash point
Evaporation Rate
Flammability (Solid, Gas)

6.8-7.9
158-159°C/316-318°F
Not applicable
Not applicable
Not applicable
Not determined

Flammability Limit in Air

Upper flammability or explosive Not determined

limits

Lower flammability or explosive Not determined

limits

Vapor Pressure Not determined Vapor Density Not determined **Relative Density** 0.61-0.77 Water Solubility Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

Other information

Bulk density 5.17lb/gal

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children. Excessive heat.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

Smoke, fumes or vapors, and oxides of carbon. Nitrogen oxides (NOx). Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion Harmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Diuron	= 1017 mg/kg (Rat) = 4990 mg/kg	> 2000 mg/kg (Rat) > 5 g/kg (Rat	> 0.265 mg/L (Rat)
330-54-1	(Rat))	

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Group 3 - Not Classifiable as to Carcinogenicity in Humans.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Numerical measures of toxicity

Acute Oral LD50 (Rat): >5,000 mg/kg Acute Dermal LD50 (Rabbit): >5,000 mg/kg Acute Inhalation LC50 (Rat): >2.03 mg/L (4-hr)

Eye Irritation: Mildly irritating. **Dermal Irritation**: Non-irritating.

Dermal Sensitization: Not a skin sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from areas treated. Cover or incorporate spills.

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Chemical name	Partition coefficient
Diuron	2.82
330-54-1	

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Canadian manufacturers should dispose of unwanted active ingredients and containers in

accordance with municipal or provincial regulations. For additions details and clean up of

spills, contact the manufacturer or the provincial regulatory agency.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

POT Please contact manufacturer for most current information

UN/ID No UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s. (Diuron)

Hazard class 9
Packing Group III

Reportable Quantity (RQ) Diuron- 100 lbs

Marine Pollutant Yes if package larger than 882 lbs. (400 Kg).

IATA

UN number UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s. (Diuron)

Transport hazard class(es) 9
Packing Group III

Marine Pollutant Marine Pollutant

IMDG

UN number UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s. (Diuron)

Transport hazard class(es) 9
Packing Group III
Marine Pollutant Yes

TDG

UN/ID No UN3077

Proper Shipping Name Environmentally Hazardous Substance, solid, n.o.s. (Diuron)

Hazard class 9
Packing Group III
Marine Pollutant Yes

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Diuron	Х	Х	Х	Χ	Х	Х	Х	Х

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

Not applicable

SARA 311/312 Hazard Categories

Not applicable

SARA 313

Not applicable

CWA (Clean Water Act)

Not applicable

US State Regulations

California Proposition 65

Not applicable

U.S. State Right-to-Know Regulations

Not applicable

<u>Pesticide Registration Number</u> Pest Control Product Reg. No. 28543

Product Statement

This chemical is a product registered by the Canadian Pest Control Products Act and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-PCPA registered chemicals. Read the approved label, authorized under the Pest Control Products Act, prior to using or handling the pest control product. Following is the hazard information as required on the pesticide label:

Pesticide Label

Warning- Eye irritant

Difference between SDS and pesticide label

	PCPA	OSHA
Signal Word	Warning	Warning
Acute Toxicity – Inhalation	N/A	Harmful if inhaled
Serious eye damage/eye irritation	Eye irritant	N/A
STOT - repeated exposure	N/A	May cause damage to organs through prolonged or repeated exposure

16. OTHER INFORMATION

NFPA Health Hazards Flammability Instability Special Hazards 0 0 Not determined

HMIS Health Hazards Flammability Physical hazards Personal Protection Not determined Not determined Not determined

07-Nov-2018

Issue Date:07-Nov-2018Revision Date:07-Nov-2018Revision Note:New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet