



# SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

## Diurex 80 WG

Revision date 20-Apr-2023

Version 2 Supersedes Date: 22-Apr-2019

Product Code(s)

HRB01092-27

Print Date 20-Apr-2023

ADM.02500.H.5.A 9511294

## 1. Identification

### Product identifier

## Diurex 80 WG

### Other means of identification

Synonyms	Diuron 800 WG
Formulation type	WG
Registration Number(s)	L8139
Pure substance/mixture	Mixture

### Recommended use of the chemical and restrictions on use

Recommended use	Herbicide; Professional use
Uses advised against	No information available

### Detailed information about the manufacturer, supplier, and/or importer

#### Supplier

ADAMA SOUTH AFRICA (PTY) LTD  
Ground Floor, Simeka House  
The Vineyards Office Estate  
99 Jip de Jager Drive  
Bellville 7530

### Emergency telephone number

Emergency Telephone	+27 82 446 8946 (Griffon Poison Centre) +27 86 155 5777 (Tygerberg Poison Information Centre) +27 86 100 6366 and +27 83 253 6618 (SPILL TECH)
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E-mail address	SDS@ADAMA.COM
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## 2. Hazard(s) identification

### Classification of the substance or mixture

Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

**Label elements****Signal word**

Warning

**Hazard pictograms****Hazard statements**

H319 - Causes serious eye irritation  
 H351 - Suspected of causing cancer  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H410 - Very toxic to aquatic life with long lasting effects

**Precautionary statements**

P101 - If medical advice is needed, have product container or label at hand  
 P102 - Keep out of reach of children  
 P203 - Obtain, read and follow all safety instructions before use  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P264 + P265 - Wash face, hands and any exposed skin thoroughly after handling. Do not touch eyes  
 P273 - Avoid release to the environment  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P318 - If exposed or concerned get medical advice.  
 P319 - Get medical help if you feel unwell  
 P337 + P317 - If eye irritation persists: Get medical help  
 P391 - Collect spillage  
 P405 - Store locked up  
 P501 - Dispose of contents/container in accordance with national regulation

**Additional information**

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

**Other hazards**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**3. Composition/information on ingredients****Substance**

Not applicable

**Mixture****Synonyms**

Diuron 800 WG

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Diuron	330-54-1	77-87	206-354-4	Acute Tox. 4 (H302) STOT RE 2 (H373)	10

				Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Carc. 2 (H351)	
Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts	68425-94-5	5-8		Skin irrit. 2 (H315) Eye Dam. 1 (H318)	
Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts	1258274-08 -6	1-3	800-660-7	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	

Full text of H- and EUH-phrases: see section 16

#### Additional information

Note: The other ingredients do not cause or contribute towards the correct GHS classification of Diurex 80 WG and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021, Regulation 14(b), not listed in the table above.

## 4. First-aid measures

### Description of necessary first aid measures

<b>General advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

### For emergency responders

**Self-protection of the first aider** Use personal protective equipment as required.

### Most important symptoms/effects, acute and delayed

**Symptoms** None known.

### Indication of immediate medical attention and special treatment needed, if necessary

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

### Suitable Extinguishing Media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

### Specific hazards arising from the chemical

**Specific hazards arising from the chemical** No information available.

#### Specific/special fire-fighting measures

**Specific/special fire-fighting measures** No information available.

#### Special protective equipment and precautions for fire-fighters

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **6. Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

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

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Other information** Refer to protective measures listed in Sections 7 and 8.

## **7. Handling and storage**

### Preventive measures for safe handling

**Advice on safe handling** Avoid generation of dust. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product.

### Precautions for safe handling

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

## **8. Exposure controls/personal protection**

### Control parameters

**Exposure guidelines**

Chemical name	ACGIH TLV
Diuron 330-54-1	TWA: 10 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Wear suitable gloves.

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
<b>Appearance</b>			
Physical state	: Solid		
Color	: beige		
Odor	: No information available		
<b>Odor threshold</b>	: No data available		
<b>pH</b>	: 8 - 9	EPA-OPPTS 830.7000	
<b>Melting point / freezing point °C</b>	: ----		Not applicable
<b>Boiling point / boiling range °C</b>	: ----		Not applicable
<b>Flash point °C</b>	: ----		Not Applicable
<b>Evaporation rate</b>	: No data available		
<b>Flammability (solid, gas)</b>	: Not flammable		
<b>Upper/lower flammability or explosive limits</b>	: No data available		
<b>Vapor pressure kPa</b>	: ----		Not applicable
<b>Vapor density</b>	: No data available		
<b>Relative density</b>	: ----		
<b>Solubility(ies) mg/l</b>	: ----		Not applicable
<b>Partition coefficient Log Pow</b>	:		See Section 12 for additional Ecological Information
<b>Autoignition temperature °C</b>	: ----		No data available
<b>Decomposition temperature °C</b>	: ----		No data available
<b>Kinematic viscosity mm<sup>2</sup>/s 40 °C</b>	: ----		Not applicable
<b>Explosive properties</b>	: Not an explosive		
<b>Oxidizing properties</b>	: No data available		
<b>Surface tension</b>	: ----		
<b>Particle Size</b>	: Not applicable		

Other information

Bulk density g/ml : 0.619

**10. Stability and reactivity**Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

**11. Toxicological information**Information on toxicological effectsAcute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: > 2000	Rat	OECD 423	
Dermal LD50 mg/kg	: > 5000	Rat	EPA-OPPTS 870.1200	
Inhalation LC50 LC50	: > 2.03	Rat	EPA-OPPTS 870.1300	Maximum attainable concentration
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	EPA-OPPTS 870.2500	
Serious eye damage/eye irritation	: Irritating to eyes	Rabbit	EPA-OPPTS 870.2400	
Sensitization	: Not a skin sensitizer	Guinea pig	EPA-OPPTS 870.2600	

Chronic toxicityGerm cell mutagenicityChemical name

Diuron : Not classified

Carcinogenicity

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**Chemical name**

Diuron : Suspected of causing cancer

**Reproductive toxicity****Chemical name**

Diuron : Not toxic for the reproductive system

**STOT - Single Exposure****Chemical name**

Diuron : No data available

**STOT - Repeated Exposure****Chemical name**

Diuron : May cause damage to organs through prolonged or repeated exposure

**Aspiration hazard****Chemical name**

Diuron : No data available

**12. Ecological information****Ecotoxicity****Aquatic toxicity****Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: 137	Cyprinus carpio		
Crustacea 48-hour EC50 mg/l	: 1.26	Daphnia magna		
Algae 72-hour EC50 mg/l	: 0.028	Green algae		
Other plants EC50 mg/l	: No data available			days 7

**Chronic aquatic toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish NOEC mg/l	: No data available			
Crustacea NOEC mg/l	: 0.5	Daphnia magna		
Algae NOEC mg/l	: 0.002	green Algae		
Other plants NOEC mg/l	: No data available			

**Terrestrial Toxicity****Birds Oral LD50 mg/kg****Chemical name**

Diuron : 1104 Bobwhite quail

**Bees Oral LD50 µg/bee****Chemical name**

Diuron : 145 contact mg/kg

**Abiotic Degradation****Water DT50 days****Chemical name**

Diuron : --- No data available

**Soil DT50 days****Chemical name**

Diuron : 90-180

**Biodegradation****Chemical name**

Diuron : No data available

<b>Log Pow</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
Chemical name Diuron	: 2.85		
<b>Bioconcentration factor (BCF)</b>			
Chemical name Diuron	:		No data available
<b>Adsorption/Desorption</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
Chemical name Diuron	: 400		KOC

### 13. Disposal considerations

#### Disposal methods

**Waste from residues/unused products** Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

**Contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal.

### 14. Transport information

#### ADR

14.1 UN number	UN3077
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diuron)
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing group	III
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diuron), 9, III, (-)
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 601, 375
Classification code	M7
Tunnel restriction code	(-)

#### RID

14.1 UN number	UN3077
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diuron)
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing group	III
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diuron), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 375, 601
Classification code	M7

#### IMDG

14.1 UN number	UN3077
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diuron)
14.3 Hazard Class	9
14.4 Packing group	III
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diuron), 9, III, Marine pollutant



<b>14.5 Marine pollutant</b>	P
<b>Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	274, 335, 966, 967, 969
<b>EmS-No</b>	F-A, S-F
<b>IMDG Stowage and segregation</b>	Category A SW23
<b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	No information available

**IATA**

<b>14.1 UN number</b>	UN3077
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diuron)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diuron), 9, III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	A97, A158, A179, A197, A215
<b>ERG Code</b>	9L



\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

## 15. Regulatory information

### Safety, health and environmental regulations specific for the product in question

Registration Requirements: Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Pesticide Handling, Storage and Disposal Safety: SANS10206: 2020. Safety Data Sheet and Occupational Exposure Limit Requirements: Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010. Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces: Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

## 16. Other information

### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

**Date of preparation of the SDS** No data available

**Revision date** 20-Apr-2023

**Revision Note** Changes made to the last version are labeled with this sign \*\*\*.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

IMDG International Maritime Dangerous Goods (IMDG)  
 IATA International Air Transport Association (IATA)  
 ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Abbreviations and acronyms**

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 CAS Number - Chemical Abstracts Service number  
 EC Number - EINECS and ELINCS Number  
 EINECS - European Inventory of Existing Commercial Substances  
 ELINCS - European List of notified Chemical Substances  
 IATA - International Air Transport Association  
 ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
 IMDG - International Maritime Dangerous Goods  
 LC50 - Lethal Concentration to 50 % of a test population  
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
 OECD - Organization for Economic Co-operation and Development  
 PBT - Persistent, Bioaccumulative and Toxic substance  
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
 STOT - Specific Target Organ Toxicity  
 vPvB - Very Persistent and Very Bioaccumulative

**The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)**

**Classification of the mixture**

H319 - Causes serious eye irritation  
 H351 - Suspected of causing cancer  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects

**Classification procedure**

Classification based on test data  
 Classification based on Calculation method  
 Classification based on Calculation method  
 Classification based on test data  
 Classification based on Calculation method

**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**