



SAFETY DATA SHEET

JEWEL

Reg. No. /Nr L11801, Act/Wet No. /Nr 36 Of Van 1947

Section 1. Identification of the material and the supplier

Product: **JEWEL**
Product Use: Herbicide
Restriction of Use: Refer to Section 15

Supplier: **Agritech Bioscience (Pty) Ltd t/a Carabiner**
PO Box 1224
Isando, 1600
South Africa
www.carabiner.co.za

Emergency No: POISON INFORMATION HELPLINE 0861 555 777
GRIFFON POISON CENTRE 082 446 8946
POISON CENTRE (UNITAS HOSPITAL) 012 664 1100
TYGERBERG 021 931 6129
RED CROSS 021 689 5227
RAPID SPILL RESPONSE 0800 775 3305

Date of SDS Preparation: 05 February 2026

Section 2. Hazards Identification

Classification of the substance or mixture

Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Skin irritation Category 2; H315
Serious Eye Damage Category 1; H318
Short-term (Acute) Aquatic hazard Category 1; H400
Long-term (Chronic) Aquatic hazard Category 1; H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Label elements

Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Pictograms



Signal Word: **Danger**

Hazard statement(s)

H315: Causes skin irritation.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read carefully and follow all instructions.

Prevention:

P264 + P265 - Wash hands thoroughly after handling. Do not touch eyes.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/eye protection/face protection.

Response:

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P305 + P354 + P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P317 - Get medical help.

P321 - Specific treatment (see First Aid Measures on this SDS).

P332 + P317 - If skin irritation occurs: Get medical help.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

Storage:

-

Disposal:

P501 - Dispose of contents/container in accordance with national regulations.

Supplemental Hazard Statements: none

2.3 Other

Other hazards

No other hazards known

Section 3. Composition / Information on Hazardous Ingredients
--

Mixture

Water dispersible granule

Metsulfuron-methyl 600 g/kg

Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Ingredients	Concentration of hazardous ingredient	CAS NUMBER	Classification
Metsulfuron-methyl	60%	74223-64-6	Aquatic Acute 1.; H400 Aquatic Chronic 1; H410 M factor: 1
Alkyl naphthalene sulfonate (ANS) condensate blend	>1 - <10%	-	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 3; H402 Aquatic Chronic 3; H412
Sulphuric acid, mono C12-18-alkyl esters, sodium salts	>1 - <10%	68955-19-1	Skin Irrit. 2; H315 Eye dam. 1; H318 STOT-RE 2; H373 Aquatic Acute 2; H401

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4. First Aid Measures

Provide medical personnel with the container label, product name or safety data sheet (SDS) when seeking medical attention. First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment. Remove patient from exposed area. Never give fluids or induce vomiting if the patient is unconscious or is having convulsions.

Routes of Exposure:

If in Eyes	Flush the eyes with plenty of clean water for 15 minutes holding eyelids open. Remove contact lenses, if present, after 1-2 minutes, continue rinsing. Seek medical attention immediately.
If on Skin	Immediately remove contaminated clothing and flush body and clothes with large amounts of water. Wash thoroughly with soap and water (including hair, skin, and fingernails) Wash contaminated clothing before re-use. Persons providing first aid must wear gloves to avoid self-contamination. Seek medical attention.
If Swallowed	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting unless instructed to do so by a poison control centre or medical doctor. One or two glasses of water may be given if the patient is alert. Loosen tight clothing. Remove the patient from the source of poisoning to a well-ventilated area and keep him/her calm and at rest. Keep airway open to maintain breathing, especially if person is unconscious or has vomited. Do not apply direct mouth-to-mouth respiration. Seek medical attention.
If Inhaled	Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Seek medical attention.

Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Treatment:

No specific antidote known. Treat symptomatically and supportively.

Section 5. Fire Fighting Measures

Hazards from products	Combustion or thermal decomposition will evolve toxic and irritant vapours. During fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.
Suitable Extinguishing media	Small fires: Use foam, carbon dioxide, dry powder, or halon extinguishant. Large fires: foam, water-fog, or fine spray. Avoid the accumulation of polluted run-off from the site. Remove the container from the fire if possible and without risk.
Recommended protective clothing & Precautions for firefighters	Wear SCBA and chemical-protective clothing. Self-contained breathing apparatus is required. During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.

Section 6. Accidental Release Measures**Personal precautions:**

Wear appropriate safety clothing and eye/face protection. Do not inhale vapour or spray. Avoid contact with spilled product or contaminated surfaces. For personal protection see section 8.

Environmental precautions:

Do not wash into sewers or into any body of water (waterways, drains and groundwater). Advise water authority if spillage has entered water course or drainage system. If contamination of waterways, drains, rivers, or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.

Spill and Disposal procedures:**Cleaning procedure:**

Keep all bystanders away. Ensure suitable personal protection during removal of spillage i.e., wearing a face mask for protection against organic dusts and eye protection. Re-position any leaking containers so as to minimise further leakage. For product spill sweep granule concentrate into a pile. Shovel the absorbed material into drums. Decontaminate the spill area with detergent and water and rinse with

water. If spill area is on ground near valuable plants or trees, remove top 5 cm of soil after initial clean up. Place soil in containers for disposal. Spillage or uncontrolled discharges into water courses must be alerted to the Department of Water Affair/Environment.

Disposal:

Collected material should be stored in labelled, sealable containers until these can be disposed of according to local regulations. Open burning or dumping of this material is prohibited.

Reference to other sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

Section 7.	Handling and Storage
-------------------	-----------------------------

Precautions for 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. Wash hand thoroughly with non-abrasive soap and water after handling, and before eating, tobacco use, drinking, or using the toilet. Protective clothing should be removed immediately after use washed before reuse. Do not apply directly to areas where surface water is present or to intertidal areas below the mean high-water mark. Dispose of water used to clean equipment suitably to avoid contamination of water sources.

Precautions for Storage:

Store in tightly sealed containers in a dry secure place away from fertilizers, seed, feed, and food. Store out of direct sunlight. Keep out of reach of children, unauthorized persons, or animals. Store under lock and key in original container tightly closed and in a dry, cool, well-ventilated area. Store away from sources of ignition and away from foodstuffs, fertilisers, and seeds. Keep away from children, uninformed persons, and animals. Do not contaminate other pesticides, fertilisers, water, food or feed by storage or disposal. Protect from frost and direct sunlight. Local regulations should be complied with.

Specific end use(s): Use only according to the label.

Section 8	Exposure Controls / Personal Protection
------------------	--

Occupational exposure limits:

Triclopyr: Dow AgroSciences IHG is 2 mg/m³ (skin).

Engineering Controls / Industrial Hygiene

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

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protection Equipment

Eyes	Safety goggles with side-shields.
Hands	Suitable chemical resistant safety gloves (e.g., nitrile rubber (.4mm)). Contaminated gloves should be washed. Gloves should be disposed of when

	contaminated on the inside, perforated or contamination on the outside cannot be removed.
Skin	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure. Decontaminate contaminated clothing, remove, and dispose of in accordance with the manufacturer's instructions.
Respiratory	Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles. Respiratory protection is not normally required except during the formation of mists or aerosols or in the case of fire.
General	Females of childbearing age should not come into contact with the product. Keep away from food, drink, and animal feedstuffs. No eating, drinking, or smoking during use. Wash hands and face before breaks and after work. Potentially fatal if inhaled. When handling wear full protective clothing such as gloves, hat, coat, and trousers (worn outside rubber boots). Suitable or appropriate respiratory and eye protection should also be worn. The use of a skin barrier cream is useful to give additional skin protection.

Section 9 Physical and Chemical Properties

Appearance	Solid, water dispersible granule
Colour	Brown
Odour	Characteristic
Odour Threshold	No data available
pH	5 - 8
Boiling/Melting Point	No data available
Freezing Point	GHS: Not classified
Flash Point	No data available
Flammability	No data available
Upper and Lower Explosive Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Density	Not applicable
Water Solubility	Disperses in water
Partition Coefficient:	No data available
Ignition Temperature	Not applicable
Decomposition Temperature	No data available
Viscosity	Not applicable
Particle Characteristics	No data available
Surface tension	No data available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal use and standard conditions. Stable for 24 months. Stable in aqueous media between pH 5 and 9. Hydrolysed at higher temperatures by strong alkalis and strong acids.
Possibility of hazardous reactions	No decomposition if stored and handled as indicated. Thermal decomposition may release toxic oxides of carbon, nitrogen, and sulphur.
Conditions to Avoid	Temperature extremes and direct sunlight.
Incompatible Materials	Store only in the original container.
Hazardous Decomposition Products	None under normal storage and use conditions.

Section 11 Toxicological Information**Acute Effects:**

Oral	GHS: Not classified
Dermal	GHS: Not classified
Inhalation	GHS: Not classified
Eye	Serious Eye Damage Category 1
Skin	Skin Irritant Category 2

Chronic Effects:

Carcinogenicity	GHS: Not classified
Reproductive Toxicity	GHS: Not classified
Germ Cell Mutagenicity	GHS: Not classified
Aspiration	GHS: Not classified
STOT/SE	GHS: Not classified
STOT/RE	GHS: Not classified

Section 12. Ecotoxicological Information

Ecological effects information	GHS: Aquatic Acute Category 1 GHS: Aquatic Chronic Category 1
Persistence and degradability	Information based on active: In soil, metsulfuron-methyl is broken down both by chemical hydrolysis and by microbial degradation. DT ₅₀ (ave.) in a range of field soils is 52 days, with faster degradation in acidic soils. Biodegradability: No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). This substance / mixture contains no ingredients that are on the Montreal Protocol list of substances that deplete the ozone layer.
Precautions:	Do not allow to enter waterways.

Section 13. Disposal Considerations**Disposal Method:**

In accordance with local and national regulations. Hydrolysis under alkaline conditions is a suitable method of disposal of small quantities of the product. Prior to disposal of the resultant waste, the material must be analysed in order to ensure that the active ingredient has been degraded to a safe level. This product and its container must be disposed of by a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations. Do not dispose into, or allow contact with, municipal sewerage systems or open water bodies. Do not bury.

Contaminated packaging:

Containers and packages must be completely emptied before disposal.

Dispose of rinsate where it will not contaminate crops, grazing, rivers, dams, and boreholes.

CLEAN THE EMPTY FOIL BAG AS FOLLOWS: Shake all the pesticide formulation out of the bag into the spray or mixing tank. Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Cut the bag into pieces and do not use for any other purpose. Store appropriately until it can be taken to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal. Empty containers and product should not be burnt. Do not bury, burn or donate the bag to any other parties that may use it as a container for foodstuffs.

Special precautions during disposal:

Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and take to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal. If on-site container disposal is necessary, triple rinse empty container with water, add rinsate to the spray tank. Puncture top, sides and bottom, crush, and store appropriately until it can be taken to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal. Empty containers and product should not be burnt.

Section 14	Transport Information
-------------------	------------------------------

Rail/road (RID/ADR):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl)
UN number	3077
Class	9
Packing group	III
Environm. Haz. Mark	Yes

Sea (IMDG code):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl)
UN number	3077
Class	9
Packing group	III
Marine pollutant	Yes

Air (ICAO/IATA):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl)
UN number	3077
Class	9
Packing group	III
Environm. Haz. Mark	Yes

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or Not available

Section 15	Regulatory Information
-------------------	-------------------------------

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16	Other Information
-------------------	--------------------------

Full text of H-Statements referred to under sections 2 and 3.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H401: Toxic to aquatic life.

H402: Harmful to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

The information herein is given in good faith, but no warranty, express or implied is made.

Issue Date: 05 February 2026 Review Date: 05 February 2031