

# Safety Data Sheet (SDS) Ambition

According to UN GHS 8th Ed  
Revision Date: 30/05/2022

First print date: 01/09/2019  
Version: 1.1

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

### Product identifier:

**Identification as on the label/Trade name:** Ambition

**Common name:** Metsulfuron Methyl (sulfonyl urea) 600 g/kg WDG

### Relevant identification uses of the substance and uses advised against:

**Identified uses:** Herbicide

**Uses advised against:** Use only as directed.

### Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Details of the Registration Holder:

Erintrade cc t/a RT Chemicals, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

### Emergency telephone numbers:

**24 Hour Emergency Number: Bateleur: +27 83 123 3911**

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

## SECTION 2. HAZARD IDENTIFICATION

### Classification of the substances or mixture

The mixture is classified according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories	Hazard statement
Aquatic Toxicity Acute (Category 1)	H400
Aquatic Toxicity Chronic (Category 1)	H410

*For full text of H statements see section 16*

### The most important adverse effects

**The most important adverse physiochemical effects:** None

**The most important adverse human health effects:** May cause eye irritation.

### Label elements



### Hazard pictograms

**Signal Word:** Warning

### Hazard Statements:

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Hazard classes/Hazard categories	Hazard statement
Aquatic Toxicity Acute (Category 1)	H400
Aquatic Toxicity Chronic (Category 1)	H410

## Precautionary Statements:

P264	Wash hands, forearms, and face thoroughly after handling
P273	Avoid release into the environment.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local/regional/ national regulations

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

Ingredients:

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
Metsulfuron-methyl	74223-64-6	60 %	Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410
Isopropyl amine	75-31-0	<5%	Flammable liquids (Category 1) H224 Skin Irritation (Category 2) H315 Eye Irritation (Category 2) H319 STOT SE (Category 3) H335
Hexylene glycol	107-41-5	<5%	Skin Irritation (Category 2) H315 Eye Irritation (Category 2) H319

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4. FIRST AID MEASURES

### Description of first aid measures:

**In case of inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

**In case of skin contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention immediately.

**In case of eye contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

**In case of ingestion:** Immediately transfer patient to nearest hospital or medical centre, warning by telephone of the estimated arrival time so that the start of treatment is not delayed. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband.

### Most important symptoms and effects, both acute and delayed:

None known

### Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

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## SECTION 5. FIRE FIGHTING MEASURES

### Extinguisher media:

**Suitable** extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

**Small Fire:** Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

**Large Fire:** Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

**Unsuitable** extinguishing media: Do not use high volume water jet, due to contamination risk.

### Special hazards arising from the mixture:

Fire Hazard: Flammable

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

### Advice for fire-fighters:

Avoid inhaling hazardous vapours. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

## SECTION 6. ACCIDENTAL RELEASE

### Personal precautions, protective equipment, and emergency procedures:

**For non-emergency personnel:** Evacuate all non-emergency personnel.

**For emergency responders:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

### Environmental precautions:

Stop leak if without risk. Do not touch spilled material. Use a light water spray to reduce vapours.

Prevent entry into drains, watercourses, or confined areas; dike if needed.

If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

Dispose in a safe manner in accordance with local/national regulations.

### Methods for containment and cleaning up:

**For small spills** Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth

**For large spills** Prevent entry into drains, watercourses, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations.

### Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling:

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing.

**Protective measures:** Observe directions on label and instructions for use.

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**Advice on general occupational hygiene:** Do not eat drink or smoke when handling this product.

**Conditions for safe storage, including incompatibilities:**

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use.

**Specific end uses:**

Use as directed. Use original container.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters:**

**Occupational exposure limits (OEL):** No information available.

**Biological exposure indices (BEI):** No information available.

**Additional exposure limits under the conditions of use:** No information available.

**Exposure control:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

**Appropriate engineering controls:** Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort wear chemical goggles.

**Hand protection:** Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

**Body protection: Wear** appropriate chemical resistant clothing to prevent skin contact with the product. Coveralls must be discarded after use.

**Respiratory protection:** Respiratory protection is not required for normal use and handling. During periods of abnormal exposure to heavy spray or mist, use a NIOSH approved dust/mist respirator. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

**Environmental exposure controls:** Prevent product from entry into sewers and water courses.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Appearance	Solid Granule
Colour	Light of white
Odour	No data available
Odour threshold	No data available
pH	5-8
Melting point / freezing point (°C)	No data available
Boiling point (°C)	No data available
Flash point (°C)	27 °C

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Evaporation rate	No data available
Flammability	Combustible Liquid
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C)	1.116
Water solubility (g/l) at 20°C	No data available
Partition coefficient : n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	Can form an explosive mixture in air.
Oxidising properties	No data available
Explosive limits	No data available

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity:**

The product is stable under normal conditions.

**Chemical stability:**

Stable under normal storage conditions for 2 years. Avoid excessive heat sources.

**Possibility of hazardous reactions:**

No information available.

**Conditions to avoid:**

Avoid excessive heat sources.

**Incompatible materials:**

Should not be applied in combination with organophosphate insecticides.

**Hazardous decomposition products:**

Combustion or thermal decomposition may generate toxic and irritant vapours

### SECTION 11. TOXICOLOGICAL INFORMATION

**Toxicokinetic, metabolism and distribution:** No data available

**Information on toxicological effects:**

**Assessment of acute toxicity:**

The product has not been tested. The data reported is for the main ingredients in the mixture.

<b>Metsulfuron-methyl CAS No. 74223-64-6</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat – male and female)	>5000 mg/kg
Acute Dermal LD50 (rabbits):	> 2000 mg/kg
Acute Inhalation LC50 - 4 h (rat – male and female)	>5 mg/l
Skin irritation/ corrosion (rabbits)	Not a skin irritant
Eye damage / irritation (rabbits)	Not and eye irritant
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available.

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Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>Isopropyl amine CAS No. 75-31-0</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat)	173 mg/kg
Acute Dermal LD50 (rat male and female):	400 mg/kg
Acute Inhalation LC50 - 4 h (rat)	8.7 mg/l air
Skin irritation/ corrosion (rabbit)	Causes severe burns
Eye damage / irritation (rabbit)	Irreversible effects on the eye - 24 h
Respiratory or skin sensitization (Guinea pig)	Does not cause skin sensitization
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No adverse effect observed (negative)
Specific Target Organ Toxicity STOT single exposure	May cause respiratory irritation.
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

Additional Information:

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin, cough, shortness of breath, headache, nausea.

Systemic effects: After absorption of large quantities – Narcosis

Damage to: Kidney

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>Hexylene glycol. 107-41-5</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat)	3700 mg/kg
Acute Dermal LD50 (rat)	12300 mg/kg
Acute Inhalation LC50 - 1 h (rat)	>310 mg/m <sup>3</sup>
Skin irritation/ corrosion (rabbit)	Irritating to skin. - 4 h
Eye damage / irritation (rabbit)	Causes serious eye irritation.
Respiratory or skin sensitization Maximisation test (Guinea pig)	Negative
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## SECTION 12. ECOLOGICAL INFORMATION

Metsulfuron-methyl CAS No. 74223-64-6	
<b>Toxicity</b>	
Birds Acute oral LD <sub>50</sub> Dietary LC <sub>50</sub> 8 days	>2510 mg/kg Mallard ducks, >5620 mg/kg diet Mallard ducks and Bobwhite quail
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia EC <sub>50</sub> (48 hr) Toxicity to algae – static test EC <sub>50</sub> (72h) Toxicity to bees Worms LC <sub>50</sub>	>150 mg/l Rainbow trout and Bluegill sunfish >150 mg/l 0.045mg/l (green algae) Non-to bees >1000 mg/kg
<b>Persistence and degradability</b>	Metsulfuron-methyl is broken down both by chemical hydrolysis and microbial degradation. DT <sub>50</sub> (ave) in a range of field soils is 52 days with faster degradation in acidic soils
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in soil</b>	Higher mobility potential in alkaline soils than in acidic soils, as it is more soluble under alkaline conditions.
<b>Result of PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	No data available

Isopropyl amine CAS No. 75-31-0	
<b>Toxicity</b>	
Aquatic Toxicity Fish LC <sub>50</sub> (96 h) Aquatic Toxicity Daphnia semi static EC <sub>50</sub> (48 h) Toxicity to algae – static test EC <sub>50</sub> (72h) Toxicity to bacteria EC <sub>50</sub> (30 min)	40 mg/l Oncorhynchus mykiss (rainbow trout) 47.4 mg/l Daphnia magna (Water flea) 18.9 mg/l Desmodesmus subspicatus (green algae) >1 mg/l Activated sludge
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Result of PBT and vPvB assessment</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>Other adverse effects</b>	Do not empty into drains. Discharge into the environment must be avoided

Hexylene glycol. 107-41-5	
<b>Toxicity</b>	
Aquatic Toxicity Fish flow through test LC <sub>50</sub> (96 h) Aquatic Toxicity Daphnia LC <sub>50</sub> (48 h) Toxicity to algae –ErC <sub>50</sub> (72h) Toxicity to bacteria–EC <sub>50</sub> activated sludge (5 min)	8.510 mg/l Gambusia affinis (Mosquito fish) 5.410 mg/l Daphnia magna (Water flea) >429 mg/l Pseudokirchneriella subcapitata (green algae) - 3.070 mg/l Photobacterium phosphoreum
<b>Persistence and degradability</b> (aerobic 28d)	81% Readily biodegradable

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<b>Bioaccumulation potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Result of PBT and vPvB assessment</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher
<b>Other adverse effects</b>	Discharge into the environment must be avoided.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods:

#### Product:

Keep out of drains, sewers, ditches, and waterways. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

#### Container:

Refer to container label for disposal information. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Dispose of as hazardous waste. Do not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.

## SECTION 14. TRANSPORT INFORMATION

UN Number	3082
UN proper shipping name	Environmental Hazardous Substance; Liquid; N.O.S (Metsulfuron-methyl 600 g/kg)
Transport hazard class	9
Packaging group	III
Marine pollutant	Yes

## SECTION 15. REGULATORY INFORMATION

### Safety, health, and environmental regulations/legislation for the mixture:

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

### Relevant information regarding restrictions:

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP]

### Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

**Chemical Safety Assessment carried out?** No



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### SECTION 16. OTHER INFORMATION

#### Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]  
GHS aligned – all sections

#### Relevant H statements (number and full text):

Aquatic acute toxicity (Category 1): Very toxic to aquatic life

Aquatic chronic toxicity (Category 1): Very toxic to aquatic life with long lasting effects

#### Training instructions:

Use as indicated on the label, special training may be required for application.

#### Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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, and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.