

SAFETY DATA SHEET: ADAMA S-METOLACHLOR

Revision date: 27/04/2022

Version 2

Print date: 12/12/2022

1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

Product name:	ADAMA S-METOLACHLOR
Active Ingredient:	S-METOLACHLOR 960 (without safener) EC
Registration number:	L11118
Recommended use of the chemical and restrictions on use	Herbicide
Registration holder:	ADAMA South Africa (Pty) Ltd Ground Floor, Simeka House The Vineyards Office Estate, 99 Jip de Jager Drive Bellville 7530
Phone number:	+ 27 21 982 1460
Emergency phone number(s):	Griffon Poison Information Centre: +27 (0)82 446 8946 Tygerberg Poison Information Centre: +27 (0)861 155 5777 SPILL TECH®: +27(0)86 100 0366; +27 (0)83 253 6618

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Hazard Class	Category	Hazard Statement	Number
Acute Toxicity, Oral	4	H302	
Acute Toxicity, Dermal	4	H312	
Acute Toxicity, Inhalation	4	H332	
Skin Corrosion/Irritation	2	H315	
Serious Eye Damage/Irritation	1	H318	
Skin Sensitization	1	H317	
Aquatic Toxicity - Acute	2	H401	
Aquatic Toxicity - Chronic	1	H410	

GHS Label elements, including precautionary statements:



Signal word:

WARNING

Hazard statement(s):

H302: Harmful if swallowed

H312: Harmful in contact with skin

H332: Harmful if inhaled

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H315: Causes skin irritation

H318: Causes serious eye damage

H317: May cause an allergic skin reaction

H401: Toxic to aquatic life

H411: Toxic to aquatic life with long lasting effects

Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.

P264 Wash hands thoroughly after handling.

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

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area

P272 Contaminated work clothing should not be allowed out of the workplace

P273 Avoid release to the environment.

P280 Wear protective gloves.

P301 + P317 IF SWALLOWED: Get medical help.

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

P321 Specific treatment

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

P330 Rinse mouth

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

P333 + P317 If skin irritation or rash occurs: Get medical help.

P317 Get medical help.

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

P391 Collect spillage.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification:

Not available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration(%)	Classification
S-Metolachlor	87392-12-9	86.6	Acute Toxicity, Oral, Category 5 Acute Toxicity, Dermal, Category 4 Acute Toxicity, Inhalation, Category 3. Skin sensitization, Category 1. Aquatic Toxicity, Acute, Category 3 Aquatic Toxicity, Chronic, Category 1.
Calcium	26264-06-2	2.7	Acute Toxicity, Oral, Category 4.

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dodecylbenzene sulfonate			Acute Toxicity, Dermal, Category 4. Acute Toxicity, Inhalation, Category 4. Skin Corrosion/Irritation, Category 2. Serious Eye Damage/Irritation, Category 1. Aquatic Toxicity, Acute, Category 3 Aquatic Toxicity, Chronic, Category 4.
Nonylphenoxypoly(ethyleneoxy)ethanol	9016-45-9	3.6	Acute Toxicity, Oral, Category 5 Skin Corrosion/Irritation, Category 2. Eye Corrosion/Irritation, Category 1. Aquatic Toxicity, Acute, Category 3 Aquatic Toxicity, Chronic, Category 2.
Aromatic hydrocarbon	64742-94-5	7.1	Acute Toxicity, Oral, Category 4. Acute Toxicity, Dermal, Category 4. Acute Toxicity, Inhalation, Category 3. Skin Corrosion/Irritation, Category 2. Serious Eye Damage/Irritation, Category 2. Skin sensitization, Skin Sens. 1B. Aquatic Toxicity, Acute, Category 1. Aquatic Toxicity, Chronic, Category 1.

4. FIRST AID MEASURES

Description of necessary first aid measures

Ingestion:

Do not induce vomiting. Get medical attention immediately. Qualified medical personnel should perform administration of gastric lavage or oxygen.

Inhalation:

Immediately remove source of contamination or move victim to fresh air. Perform artificial respiration and administer oxygen if necessary. Keep person warm and at rest. Seek medical advice immediately.

Skin contact:

Remove contaminated clothing, shoes and leather goods immediately. Wash skin gently and thoroughly with non-abrasive soap and large amounts of water. Seek medical advice if necessary.

Eye contact:

Rinse eyes immediately with large amounts of gently flowing cold water or normal saline solution, for approximately 15 to 20 minutes. Occasionally lift the upper and lower lids. If irritation persists, get medical attention.

Advice to doctors:

Treat according to symptoms.

Antidote:

No data available.

Most important symptoms/effects, acute and delayed

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The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

Indication of immediate medical attention and special treatment needed: No data available.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Dry chemical, water spray (fog), foam or carbon dioxide.

Special hazards arising from the chemical:

Vapours may be toxic. Self-contained breathing apparatus required. Do not allow contaminated runoff to enter drains.

Special protective actions for fire-fighters:

Firefighters should be equipped with self-contained breathing apparatus and chemical-protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Methods and materials for containment and cleaning up:

For small spills, cover the spill with an absorbent material such as pet litter. Sweep up and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent materials, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies. Dispose of in accordance with local, state, and federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling:

Read the label before use. Don't get in eyes, on skin or on clothing. Avoid breathing dust. Observe good personal hygiene. Remove PPE immediately if pesticide gets inside. Then wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Conditions for safe storage, including any incompatibilities:

Store in the sealed original container in a dry and well-ventilated place, as cool as possible. Prevent from shining directly for a long time. Keep out of reach of children and domestic animals and food stuffs. Make sure that the product does not come in contact with strong oxidizing agents.

Incompatible substances and mixtures: Refer to product label.

Packaging material: HDPE plastic containers.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:

No exposure limits allocated.

Personal protective equipment:

When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles. General (mechanical) room ventilation is considered satisfactory. If skin contact or contamination of clothing is likely, protective clothing should be worn. Change to clean clothing if contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.):	Light yellow to dark brown liquid
Odor:	Mild aromatic solvent odor
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	>90°C
Evaporation rate:	Volatile
Flammability (solid, gas):	Combustible
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	1.08-1.13 g/ml
Solubility(ies):	Emulsifiable in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

Reactivity:

No data available

Chemical stability:

Relatively stable in neutral, weakly acidic and weakly alkaline media; hydrolyzed by stronger acids and basis.

Possibility of hazardous reactions:

No hazardous reactions known.

Conditions to avoid:

No data available

Incompatible materials:

Strong acid/alkaline and oxidizing agents.

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Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

Acute health effects:

May be harmful if swallowed.

Numerical measures of toxicity:

Acute oral LD ₅₀ :	1815.6 mg/kg
Acute dermal LD ₅₀ :	1916.4 mg/kg
Acute inhalation LC ₅₀ :	1.36 mg/l
Skin irritation:	Category 2
Eye irritation:	Category 1
Skin sensitization:	Category 1
Germ cell mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity and Developmental toxicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Repeated dose toxicity and Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available

Chronic health effects:

Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish - Acute LC ₅₀ :	3.2 mg/L in the rainbow trout
Bird LD ₅₀ :	> 2510 mg/kg in the Bobwhite quail
Algae EC ₅₀ :	0.008 mg/L
Daphnia EC ₅₀ :	26 mg/L
Bees Oral acute LD ₅₀ :	>85 µg/bee
Earthworms LC ₅₀ :	570 mg/kg soil

Persistence and degradability:

DT ₅₀ (in soil):	7.6-37.6 days
DT ₅₀ (in water):	pH 5, 7, 9 at 25°C: no degradation within 30 d

Bioaccumulative potential:

No data available

Mobility in the soil:

Medium mobility

Other adverse effects:

No data available

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13. DISPOSAL CONSIDERATIONS

Safe handling of waste residues and disposal methods:

Open dumping is prohibited. 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.

14. TRANSPORT INFORMATION

UN Number: 3082

Road Transport ADR/IRD:

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Maritime Transport IMDG/IMO:

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Marine Pollutant (Y/N): Y

Air transport IATA/ICAO:

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Special/Environmental Precautions: None known.

15. REGULATORY INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and /or local laws.

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

This version revised in 20220427