

SAFETY DATA SHEET: RANGER

Revision date: 26/04/2022

Version 2

Print date: 15/11/2022

1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

Product name: RANGER
Other name: /
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: 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	1	H400	
Aquatic Toxicity - Chronic	2	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

H315: Causes skin irritation

H318: Causes serious eye damage

SAFETY DATA SHEET: RANGER

Revision date: 26/04/2022

Version 2

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H317: May cause an allergic skin reaction

H400: Very 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 body 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
Prosulfocarb	52888-80-9	80	Acute Toxicity, Oral, Category 5. Acute Toxicity, Dermal, Category 4. Acute Toxicity, Inhalation, Category 5. Skin sensitization, Category 1 Aquatic Toxicity, Acute, Category 1 Aquatic Toxicity, Chronic, Category 2
Calcium dodecylbenzene sulfonate	26264-06-2	5	Acute Toxicity, Oral, Category 4. Acute Toxicity, Dermal, Category 4. Acute Toxicity, Inhalation, Category 4. Skin Corrosion/Irritation, Category 2.

SAFETY DATA SHEET: RANGER

Revision date: 26/04/2022

Version 2

Print date: 15/11/2022

			Serious Eye Damage/Irritation, Category 1. Aquatic Toxicity, Acute, Category 2 Aquatic Toxicity, Chronic, Category 4.
Polyoxyethylene castor oil	61791-12-6	7	Acute Toxicity, Oral, Category 4 Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Irritation, Category 2 Skin sensitization, Category 1 Aquatic Toxicity, Chronic, Category 4
Cyclohexanone	108-94-1	5	Acute Toxicity, Oral, Category 4 Acute Toxicity, Dermal, Category 4 Acute Toxicity, Inhalation, Category 4 Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Irritation, Category 1 Skin sensitization, Category 1
Solvesso-150	64742-94-5	3	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. Call a physician and/or transport to emergency facility immediately. The decision of whether to induce vomiting or not should be made by a physician.

Inhalation:

Remove to fresh air. Consult a physician.

Skin contact:

Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

Eye contact:

Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes.

Advice to doctors:

There is no specific antidote.

Antidote:

No specific antidote.

SAFETY DATA SHEET: RANGER

Revision date: 26/04/2022

Version 2

Print date: 15/11/2022

Most important symptoms/effects, acute and delayed

No data available.

Indication of immediate medical attention and special treatment needed:

Due to the solvent present, if small amount of the product is aspirated into the respiratory system during ingestion or from vomiting, bronchopneumonia or pulmonary edema may be caused. No specific antidote. Keep patient under observation and treat symptomatically as indicated by his\her condition.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

For small fires, use carbon dioxide, dry chemical fire extinguishers, foam. For large fires, use Water fog or fine spray.

Special hazards arising from the chemical:

Chloride compounds, carbon dioxide and nitrogen oxides.

Special protective actions for fire-fighters:

Wear protective clothing and use self-contained breathing apparatus. Cool containers exposed to fire or heat with water spray. Contain runoff to prevent entry into water or drainage systems.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate safety clothing and eye/face protection.

Environmental precautions:

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

Methods and materials for containment and cleaning up:

Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with eyes and skin, and inhalation of mist and vapor. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Conditions for safe storage, including any incompatibilities:

Store in the closed, original container in a dry, well-ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Keep container tightly sealed and do not store with seed, fertilizers or foodstuffs. Make sure that the product does not come into contact with strong oxidizing agents.

Incompatible substances and mixtures: Refer to product label.

Packaging material: HDPE plastic containers.

SAFETY DATA SHEET: RANGER

Revision date: 26/04/2022

Version 2

Print date: 15/11/2022

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite 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 protective equipment:

Eye Protection: Safety goggles or face shield.

Respiratory Protection: Self-contained breathing apparatus and total protection required in enclosed areas.

Protective Clothing: Employee must wear appropriate protective (impervious) clothing; boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

Gloves: Employee must wear appropriate chemical resistant protective gloves to prevent contact with this substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.):	Dark brown transparent liquid
Odor:	Musty odor
Odor threshold:	No data available.
pH:	5.0-9.0
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash point:	> 90°C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower flammability or explosive limits:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.046 g/cm ³ at 20°C
Solubility(ies):	Miscible
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	32.1 mPa.s at 20°C

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:

SAFETY DATA SHEET: RANGER

Revision date: 26/04/2022

Version 2

Print date: 15/11/2022

Hazardous polymerization will not occur.

Conditions to avoid:

Oxidizing agents, acids, and alkali.

Incompatible materials:

Incompatible with strong acid, alkaline and oxidizing agents.

Hazardous decomposition products:

Decomposes in fire and will generate toxic/irritant vapors.

11. TOXICOLOGICAL INFORMATION

Acute health effects:

Exposure routes: Skin contact, Skin absorption, Ingestion

Immediate Effects Eye: May cause moderate irritation to eyes.

Ingestion: Harmful if swallowed.

Numerical measures of toxicity:

Acute oral LD50:	1191.1 mg/l
Acute dermal LD50:	1929.8 mg/l
Acute inhalation LC50:	1.52 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:

Toxicity to Fish LC50:	LC50= 3.5 mg/l in Rainbow trout; LC50= 4.2 mg/l in Bluegill sunfish
Toxicity to Birds LC50:	LD 50> 2250 mg/kg in Bobwhite quail; LC 50> 5620 mg/kg in Mallard ducks
Toxicity to Aquatic Invertebrates EC50:	LC 50=1.3 mg/l in Daphnia magna
Toxicity to Honeybees LD50	LD 50> 103 µg/bee

Persistence and degradability:

Average persistence at recommended rates is 8 to 12 weeks, but may vary depending on soil type and climatic

SAFETY DATA SHEET: RANGER

Revision date: 26/04/2022

Version 2

Print date: 15/11/2022

conditions.

Bioaccumulative potential:

No data available.

Mobility in the soil:

No data available.

Other adverse effects:

No data available.

13. DISPOSAL CONSIDERATIONS

Safe handling of waste residues and disposal methods:

Open dumping or burning of this pesticide 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. Comply with local legislation applying to waste disposal. Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

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.

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.

SAFETY DATA SHEET: RANGER

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Version 2

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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.

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