

VILLA SURFLAN® 480 SC

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: SURFLAN® 480 SC
Herbicide

Company: Villa Crop Protection (Pty) Ltd.
PO Box 10413,
Kempton Park, 1620, South Africa

Telephone: (011) 396 2233
Fax: (011) 396 4666
Website: www.villacrop.co.za

Emergency telephone numbers:
24 Hr Transport / Spill emergency no:
 EnviroSure. +27 31 205 4918
 (Hazcall24) +27 86 044 4411
 (Client: Villa Crop Protection)
 Griffon Poison Information Centre +27 82 446 8946
 (Client: Villa Crop Protection)
Poisoning Emergency telephone numbers:
 Griffon Poison Information Centre +27 82 446 8946
 Poisons Information Centre +27 861 555 777
Villa Crop Protection Emergency number:
National Safety, Health and Environmental Manager:
 +27 63 698 0668

2. COMPOSITION/INFORMATION ON INGREDIENTS

Common name: 1) Oryzalin 480 SC
Chemical Name: 1) 3,5-dinitro-*N*⁴,*N*⁴-dipropylsulfanilamide (IUPAC);
CAS No.: 1) [19044-88-3]
Chemical Family: 1) dinitroaniline
Chemical Formula: 1) C₁₂H₁₈N₄O₆S
Molecular weight: 1) 346.4
Use: Pre-emergence control of many annual grasses and broad-leaved weeds in cotton, fruit trees, nut trees, vines, ornamentals, soybeans, berries, rice, amenity turf and non-crop areas.

Formulation: Oryzalin 480 g/kg
Soluble concentrate

Hazardous ingredients of toxicological concern:

Inert:	concern:	% present:
Oryzalin	Skin sensitizer & Irritating	48 %
Inerts	Irritating substance	52 %

Symbol: Xi, N
Indication of danger: Environmentally dangerous & Irritating substance

R 43, R 50/53

3. HAZARDS IDENTIFICATION

Emergency overview: May cause sensitization by skin contact.
Health and Environmental: Product is expected to be harmful to aquatic organisms.

4. FIRST-AID MEASURES

Ingestion: Rinse mouth with water. Give plenty of water to drink. Seek immediate medical assistance. Do not give anything by mouth to an unconscious person.
Eye contact: Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination, it is a sensible precaution to seek medical advice.
Skin contact: Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use.
Inhalation: Move person to fresh air. Call a doctor immediately if necessary.

NOTE TO PHYSICIAN

No known antidote, however due to the low acute oral toxicity it is unlikely that one would be required. Likely symptoms of ingestion are nausea, vomiting, and diarrhoea. Supportive care. Treatment based on judgement of physician in response to symptoms of patient. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog or fine spray. Foam. Dry chemical fire extinguishers. Carbon dioxide.
Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.
Protection of Firefighters: Wear protective clothing and use self-contained breathing apparatus.
Additional Information: Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate safety clothing and eye/face protection (see Section 8).
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 of 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

VILLA SURFLAN® 480 SC

MATERIAL SAFETY DATA SHEET

contact number.

7. HANDLING AND STORAGE

Handling: Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work. Avoid skin contact.

Storage: Protect from excessive heat and cold. Do not allow to freeze - store in a cool, dry place (5 to 15 °C). Product should be stored in compliance with local regulations. Store in the closed original container in dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Keep container closed at all times – check regularly for leaks.

18. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: None established.

Engineering Controls: Good general ventilation should be sufficient for most conditions.

Local exhaust ventilation may be necessary for some operations.

Respiratory Protection: For most conditions, no respiratory protection should be needed. When airborne comfort levels may be exceeded, use an approved air-purifying respirator.

For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Hand/Skin Protection: For brief contact, no precautions other than clean body-covering clothing and impervious gloves should be needed. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

For emergency conditions: Use protective clothing impervious to this material. Selection of specific items will depend on operation.

Eye/Face Protection: Use safety glasses. Where contact with the liquid is likely, chemical goggles are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Soluble liquid.
Colour: Orange.
Odour: Faint aromatic.
Rel. density (water=1): 1.14-1.24 g/cm³ (25 deg.C)
Water solubility: Miscible
pH: 5.0-7.0 (1% aqueous suspension)
Boiling point/range: >100 °C
Rel. vapour density (air=1): 1.178 (25 deg.C)
Flash point: None

10. STABILITY AND REACTIVITY

Chemical Stability: Stable for at least 2 years under normal conditions of warehouse storage. Avoid contamination of fertilisers, spray materials, seed, feed, foodstuffs. Is stable under normal storage conditions.

Conditions to Avoid: None determined.

Materials to Avoid: Strong basic, acidic or oxidising materials.

Hazardous Decomposition Products: None under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION

Acute Oral TOXICITY (RAT): LD₅₀ = >2000 mg/kg. Low toxicity if swallowed.

Acute Dermal Toxicity (rat): LD₅₀ = >2000 mg/kg. skin contact is unlikely to result in absorption of harmful amounts. Prolonged or repeated exposure may cause slight skin irritation.

Acute Inhalation Toxicity (rat): LC₅₀ rats 3.56 mg/l/hour. No adverse effects anticipated by this route of exposure incidental to proper handling.

Primary Eye Irritation: Can cause mild irritation.

Primary Skin Irritation: Can cause mild irritation.

Dermal Sensitization: Mild skin sensitizer. (Can cause an allergic reaction).

Carcinogenicity: Not carcinogenic.

Mutagenicity: Not mutagenic.

Teratogenic: Not teratogenic.

12. ECOLOGICAL INFORMATION

Assessment largely or completely based on data for active ingredient.

Persistence and Degradability: Tightly bound to soil and is extremely resistant to leaching and elution. Rapidly degraded in the environment by hydrolysis, oxidation, photolysis and metabolism. In soil, microbial degradation occurs rapidly.

Aquatic Toxicity: Material is moderately toxic to fish on an acute basis (1 mg/l <LC₅₀ <10 mg/l).

Material is moderately toxic to aquatic invertebrates on an acute basis (1 mg/L <LC₅₀ <10 mg/l).

Avian Toxicity: Material is slightly toxic to birds on an acute basis (500 mg/kg <LD₅₀ <2000 mg/kg).

Other Information: Non-toxic to bees.

13. DISPOSAL CONSIDERATIONS

For aquatic organisms, material is expected to be harmful. Do not contaminate ponds, waterways or ditches with chemical or used container. **TRIPLE RINSE** empty containers in the following manner. Invert the empty

VILLA SURFLAN® 480 SC

MATERIAL SAFETY DATA SHEET

container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the container by perforation and flattening and dispose of it in a safe way. Do not burn empty containers. Do not re-use the empty container for any other purpose. Prevent contamination of food, feedstuffs, drinking water and eating utensils.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 61 Avoid release to the environment.

NOTICE
 The information herein is presented in good faith and believed to be accurate as of the issue or revision date shown below. 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 user's responsibility to ensure that its activities comply with government laws and regulations.

14. TRANSPORT INFORMATION

UN NUMBER: 3082
Road Transport ADR/RID:
 Class: 9
 Packaging group: III
 Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Oryzalin 480 g/l)

Maritime Transport IMDG/IMO:
 Class: 9
 Packaging group: III
 Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Oryzalin 480 g/l)

Air Transport ICAO/IATA:
 Class: 9
 Packaging group: III
 Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Oryzalin 480 g/l)

16. OTHER INFORMATION

Packaging: Packed in 1, 5, 10, 20, 25 and 50 litres plastic containers, labelled according to South African regulations and guidelines.
Disclaimer: 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 use of the product. It is not applicable to unusual or non-standard uses of neither the product nor where instructions or recommendations are not followed.

END OF DOCUMENT

Compiled: October 2009
Reviewed: March 2019
Revision no.: (2)
Next revision date: March 2024

For detailed information on revisions, contact the Registration holder.

15. REGULATORY INFORMATION

Hazard Symbol : Xi, N
Indication of danger: Environmentally dangerous & Irritating substance.
Risk Phrase(s) :
R 43 - May cause sensitisation by skin contact
R 50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrase(s) :
S 2 Keep out of the reach of children.
S 13 Keep away from food, drink and animal feeding stuffs.
S 20/21 When using do not eat, drink or smoke.
S 30 Do not empty into drains.
S 24/25 Avoid contact with skin and eyes.