

Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

Page 1 of 6

SAFETY DATA SHEET

“SHARDA NICOSULFURON 750 WG”

1. IDENTIFICATION OF PRODUCT AND COMPANY

Name of Product: “SHARDA NICOSULFURON 750 WG”

Active Ingredient: Nicosulfuron

Product Use: Herbicides

Registration holder: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135

Contact Tel. No.: 031-764-3011

Poison Centres: UNITAS Hospital: 0800-111-9900
Tygerberg Hospital: 021-931-6129
Netcare 911: 082911

2. Composition / information on ingredients

Active Ingredient:

Formulation Composition

Contents	CAS No.	Content
Nicosulfuron	111991-09-4	75%
Inert ingredients		25%

3. HAZARDS IDENTIFICATION

Potential Health Effects

Likely routes of exposure: Eye and skin exposure; possible ingestion.

Eye contact, short term: Causes moderate eye irritation. Based on animal data, eye contact with Nicosulfuron may cause eye irritation with discomfort, tearing, or blurring of vision.

Skin contact, short term: Harmful if absorbed through the skin. Based on animal data, skin contact with Nicosulfuron may cause skin irritation with discomfort or rash.

Ingestion, short term: Based on animal data, repeated ingestion of high doses of Nicosulfuron may cause reduced white blood cell production.

Carcinogenicity Information: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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Page 2 of 6

Potential Environmental Effects

Refer to Section 11 for toxicological and Section 12 for environmental information.

3. FIRST AID MEASURES

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

Inhalation: No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

Ingestion: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Advice to doctors / physician: Treat symptomatically.

Antidote: There is no known antidote.

4. FIRE-FIGHTING MEASURES

Flash Point: The flash point was not determined for this formulation.

Extinguishing Media: Water, Foam, Dry Chemical, CO₂.

Fire and Explosion Hazards: Not a fire or explosion hazard.

Hazardous Products of Combustion: Burning chemicals may produce by-products more toxic than the original material. Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Water runoff from fire control may be a pollution hazard.

Fire Fighting Equipment: Wear a self-contained breathing apparatus and full personal protective equipment.

5. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use appropriate personal protective equipment during clean-up.

Emergency Response – Wear chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection.

If dusting occurs use a NIOSH approved respirator for protection.

Environmental Precautions: Prevent fire-fighting water from entering sewers, waterways, or areas.

Methods of Cleaning up: Sweep up spilled material and place in marked drums for disposal in an approved manner.

Refer to Section 13 for disposal of spilled material.

6. HANDLING AND STORAGE

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Page 3 of 6

Good industrial practice in housekeeping and personal hygiene should be followed at all times when handling this product.

Handling:

- Avoid contact with eyes, skin and clothing.
- Do not eat, drink or smoke while handling this product.
- Wash hands and exposed skin thoroughly after handling or contact with this product.
- Do not contaminate drains, sewers and water bodies when disposing of equipment rinse water.
- Refer to Section 13 for disposal of rinse water.
- Observe all safeguards on the label as to cleaning and destruction of the container.

Storage:

- Keep out of reach of children, uninformed persons and animals.
- Store in a cool dry place away from food, drink, seed and animal feed.
- Store only in the original labelled container.
- This is a water-dispersible product. It may be packaged in a pre-measured water-soluble packet which readily dissolves in water. Exposure to moisture or excessive handling of the soluble packets will cause them to break.

7. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Equipment:

- Always follow the label instructions when handling this product.
- Applicators and other handlers must wear: Long-sleeved shirt and long pants; Chemical-resistant gloves Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all equal to or greater than 14 mils; Shoes or boots plus socks.
- Follow the manufacturer's instructions for cleaning/maintaining personal protective clothing (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
- PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: Coveralls, rubber boots and gloves, all equal to or greater than 14 mils.

8. PHYSICAL AND CHEMICAL PROPERTIES OF PRODUCT

These are typical data based on tests but may vary from sample to sample. These typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Colour (or colour range)	Light tan
Form	Wettable Granule
Odour	None
Flash Point	Not applicable.
Density	0.53g/ml; 0.758g/cm ³
Solubility	Dispersible in water
pH	3.9 (1% dispersion in water).

9. STABILITY AND REACTIVITY

Stability: Stable at normal temperature and storage conditions.

Hazardous Decomposition: None known. Polymerization will not occur.

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Page 4 of 6

Materials to Avoid / Reactivity: None known.

10. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and health professionals.

Data obtained on this and similar products and components are summarised below.

Acute Oral Toxicity: Rat, LD50: > 2 000 mg/kg body weight (very low toxicity)

Acute Dermal Toxicity: Rat, LD50: > 2 000 mg/kg body weight (slight to moderate toxicity).

Inhalation Toxicity: Rat, LC50: > 5,6 mg/l (4 hours) (very low toxicity).

Skin Irritation: Rabbit, OECD 404 Test: Mild skin irritant.

Eye Irritation: Rabbit, OECD 405 Test: Moderate eye irritant.

Skin Sensitization: Guinea Pig, Buehler Test: Not a skin sensitizer.

Mutagenicity: No mutagenicity was demonstrated with nicosulfuron.

Carcinogenicity: Nicosulfuron is not carcinogenic.

Toxicity to Reproduction and/or Fertility: Nicosulfuron did not demonstrate reproductive toxicity.

Developmental Toxicity / Teratology: Nicosulfuron did not demonstrate developmental toxicity.

11. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and environmental specialists.

Data obtained on this and similar products and components are summarised below.

Aquatic Toxicity, Algae and/or Aquatic Plants:

Green Algae (*Selenastrum capricornutum*): NOEC: 30 µg/l

Aquatic Toxicity, Fish:

Bluegill Sunfish: 96 hours, static, LC50: > 1 000 mg/l

Rainbow Trout: 96 hours, static, LC50: > 1 000 mg/l

Aquatic Toxicity, Invertebrates:

Water Flea (*Daphnia magna*), 48 hours, static, EC50: > 1 000 mg/l

Arthropod Toxicity

Honey bee (*Apis mellifera*): Oral, 48 hours, LD50: > 100 µg/bee

Avian Toxicity

Bobwhite Quail (*Colinus virginianus*): Dietary toxicity, 5 days, LC 50: > 5 620 mg/kg diet

Mallard Duck (*Anas platyrhynchos*): Dietary toxicity, 5 days, LC 50: > 5 620 mg/kg diet

Bobwhite Quail (*Colinus virginianus*): Acute oral toxicity, single dose, LD50: > 2 250 mg/kg bw

Dissipation

Soil, field: Half life: 26 to 63 days

Water: Half life: 14 to 19 days at pH 5

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Page 5 of 6

Soil Organism Toxicity, Invertebrates

Earthworm (*Eisenia foetida*): Acute toxicity, 14 days, LC50: > 1 000 mg/kg dry soil

Soil Organism Toxicity, Micro-organisms: Nicosulfuron is degraded by soil micro-organisms.

12. DISPOSAL CONSIDERATIONS

Product Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable legislation and local regulations. Do not contaminate any water supply, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not contaminate water when disposing of equipment rinse water. Do not apply where and/or when conditions could favour runoff.

Containers

Triple or pressure rinse empty containers.

Pour rinse water into spray tank and spray on the target area.

Container Disposal

For **Plastic Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For **Fibre Sacks:** Completely empty fibre sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by incineration if allowed by State and local authorities. For fibre drums with liners: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty the residue into application equipment. Then dispose of the liner in a sanitary landfill or by incineration if allowed by State and local authorities.

If drum is contaminated and cannot be reused, dispose of in the same manner.

For **Bags Containing Water-Soluble Packets:** Do not reuse the outer box or the re-sealable plastic bag. When all water-soluble packets are used, the outer packaging should be clean and may be disposed of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by open burning. If burned, stay out of smoke.

For **Paper and Plastic Bags:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

13. TRANSPORT INFORMATION

This is for information only. Apply appropriate local regulations.

The United Nations Recommendations on the Transport of Dangerous Goods: Nicosulfuron does not meet the criteria established and is not considered as dangerous or hazardous for transport.

Shipping: not regulated.

14. REGULATORY INFORMATION

RSA: Registration Number L , Act Number 36 of 1947.

Classification: Group III (Blue, Caution)

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Page 6 of 6

WHO Classification: U – unlikely to cause acute hazard in normal use (2002).

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