



MATERIAL SAFETY DATA SHEET

NO WEED PAVING RTU

Date Issued: July 2019.

Page 1 of 7

Revision No.: 5

Print Date: 28/6/19

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: NO PAVING RTU

SUPPLIER: EFEKTO

PO BOX 652147

BENMORE

2010

TEL No. 0861 333586 office hours

EMERGENCY TELEPHONE NUMBERS:

SPILLAGES: 082 446 8946

POISONINGS:

Poisons Information Helpline: 0861 555 777

Griffon Poison Centre

082 446 8946

Use: A ready-to-use non-selective, systemic, foliar applied herbicide for the control of certain broadleaf and grass weeds on paving and surrounding areas

2. HAZARDS IDENTIFICATION

- Irritating to eyes
- Harmful.

Routes of entry: Skin and eye contact, ingestion and inhalation.
Eye contact: May cause moderate eye irritation.
Skin contact: Non-irritating to skin.
Ingestion: Harmful. May cause gastrointestinal tract irritation
Inhalation: harmful by inhalation. May be irritating if inhaled.
Reproductive hazard: No evidence of adverse effects.
Carcinogenicity: Not a carcinogen.
Mutagenicity: Not mutagenic.
Neurotoxicity: Not a neuro toxin.

Symbols: Xi; N

Risk-phrase(s): R 20/22, R41, R51/53

UN No: 3082.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:



MATERIAL SAFETY DATA SHEET

NO WEED PAVING RTU

Date Issued: July 2019.

Page 2 of 7

Revision No.: 5

Print Date: 28/6/19

| Active ingredients. | CAS No.: | EC No.: |
|---|--------------|-----------|
| Glyphosate Isopropylamine salt 15.5 g/l | 38641-94-0 | 254-056-8 |
| Glyphosate | 1071-83-6 | 213-997-4 |
| Inerts Balance | Trade secret | - |

Chemical Name: N- (phosphonomethyl)glycine, IPA salt.

Chemical Family: Phosphanoglycine

Chemical Formula: C₆H₁₇N₂O₅P

NIOSH/RTECS No.: MC1080000

4. FIRST-AID MEASURES

If swallowed, this product may cause gastrointestinal tract irritation.

Symptoms of glyphosate poisoning are rare but may include headache, lethargy, diarrhea, weakness and collapse. Nausea after ingestion has been observed.

Inhalation:

Remove source of contamination or move victim to fresh air. Keep person warm and at rest. Obtain medical advice if necessary.

Skin contact:

Remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Seek medical advice if necessary.

Eye contact:

Immediately flush the eyes with gently flowing lukewarm water or saline solution for 20 minutes, holding the eyelid(s) open. Seek medical attention if necessary.

Ingestion:

Have victim rinse mouth thoroughly with water. Do not induce vomiting. Remove by gastric lavage and catharsis. Give oxygen if respiration is depressed. Do not perform gastric lavage if victim is unconscious. Administration of gastric lavage and oxygen should be performed by qualified medical personnel. Seek medical advice immediately showing container and label.

Advice to physician:

There is no specific antidote. Treat symptomatically and supportively when required.

5. FIRE-FIGHTING MEASURES

Extinguishing agents:

Extinguish **small fires** with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for **larger fires** or cooling of unaffected stock, but avoid the accumulation of polluted run-off from the site.

Firefighting:

Remove container from fire area if possible. Contain fire control water for later disposal. Use a recommended extinguishing agent for the type of surrounding fire.



MATERIAL SAFETY DATA SHEET

NO WEED PAVING RTU

Date Issued: July 2019.

Page 3 of 7

Revision No.: 5

Print Date: 28/6/19

Keep material out of sewers and water sources. Avoid inhalation of hazardous vapours. Keep upwind.

Special hazard:

No fire hazard.

Personal protective equipment:

Fire may produce irritating or poisonous vapours (toxic oxides of carbon, nitrogen and phosphorus), mists or other products of combustion. Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes. Do not inhale fumes. For personal protection see Section 8.

Environmental precautions:

Do not allow to enter drains or water courses. When the product contaminates public waters, inform appropriate authorities in accordance with local regulations.

Small spills:

For small liquid spills, soak up with sand or other suitable noncombustible absorbent material, such as sawdust, and place into containers for subsequent disposal.

Large spills:

For large spills, contain liquid far ahead of spill. Contain spillage and contaminated water for subsequent disposal. Do not flush spilled material into drains. Keep spectators away.

7. HANDLING AND STORAGE

Handling:

Harmful by inhalation or if swallowed. Avoid contact with eyes, prolonged contact with skin, and inhalation of spray and fumes. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Remove clothing immediately if the herbicide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. 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.

Storage:

Store in its original labeled container in shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Not to be stored next to foodstuffs and water supplies. Keep out of reach of children and animals. Local regulations should be complied with.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

TLV not established.

Engineering control measures:

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. If engineering



MATERIAL SAFETY DATA SHEET

NO WEED PAVING RTU

Date Issued: July 2019.

Page 4 of 7

Revision No.: 5

Print Date: 28/6/19

controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

PERSONAL PROTECTIVE EQUIPMENT:

Respirator:

An approved respirator suitable for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Clothing:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves:

Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

Eye protection:

The use of safety goggles is recommended.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: A turbid white liquid.

Odour: Surfactant type odour.

Explosive properties: Not explosive

pH: 4.7

Density: 1.012 g/ml at 20 °C

Solubility in water: 341 ± 4.9 g/L at 21°C (Glyphosate 62% TK)

Partition-coefficient in n-octanol / water: log P_{ow} < -1.72 (Glyphosate IPA salt)

Flash point: None. Product is water based.

10. STABILITY AND REACTIVITY

Storage stability:

Stable for 2 years under normal warehouse conditions.

Incompatibility:

Mixing with other products may reduce the activity of the product and is not recommended.

Hazardous decomposition products:

Toxic oxides of carbon, nitrogen and phosphorus are released when the product decomposes in case of a fire.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: > 5 000 mg/kg in rats.

Acute dermal LD₅₀: > 5 000 mg/kg in rats.

Acute inhalation LC₅₀ (4 h): > 1.14 mg/ℓ air for rats.



MATERIAL SAFETY DATA SHEET

NO WEED PAVING RTU

Date Issued: July 2019.

Page 5 of 7

Revision No.: 5

Print Date: 28/6/19

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| Acute skin irritation: | The product is not irritating to skin (rabbit). |
| Acute eye irritation: | The product is considered to be moderately irritating to eyes (rabbit). |
| Dermal sensitisation: | The product is considered to be a dermal sensitiser (guinea pig). |
| Carcinogenicity: | Animal studies did not detect any carcinogenic effects. No human information available. |
| Teratogenicity: | Animal studies did not detect any teratogenic effects. No human information available. |
| Mutagenicity: | Animal studies did not detect any mutagenic effects. No human information available. |

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY: *Data for Glyphosate 360 SL was used.*

Birds:

Low toxicity to birds.

Acute oral LD₅₀: > 2 000 mg/kg (bobwhite quail).

Fish:

May pose a hazard to fish.

LC₅₀ (96 hr): > 39.9 mg/ℓ (rainbow trout)

Bees:

Non-toxic to bees.

Oral LD₅₀ (72 h): > 180 µg formulation/bee.

Dermal LD₅₀ (72 h): > 200 µg formulation/bee.

Daphnia:

Very low toxicity to *Daphnia magna*.

EC₅₀ (48 h): > 71.8 mg/ℓ.

Algae:

Toxic to *Selenastrum capricornutum*.

E_bC₅₀ (72 h): 1.4 mg/ℓ.

E_rC₅₀ (72 h): 1.8 mg/ℓ.

Earthworms:

Not toxic to earthworms.

LC₅₀ (14 d): > 1000 mg/kg of soil.

Degradability:

Strongly adsorbed to soil and therefore becomes practically immobile. Microbial degradation is the major cause of loss from soil, with liberation of carbon dioxide. The principal metabolite is aminomethylphosphonic acid. In soil the half life of the product is less than 60 days.

Mobility:

The product is practically immobile and is unlikely to leach.

Accumulation:

The product shows little or no tendency to bio-accumulate and poses no long term threat to wildlife.

13. DISPOSAL CONSIDERATIONS

Pesticide disposal:

Waste resulting from the use of this product that cannot be reused or reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable local procedures. Hydrolysis under alkaline conditions is a suitable method to dispose of small quantities of the product. After hydrolysis, dilute and dispose of in pits or landfill. Comply with any local legislation applying to waste disposal.



MATERIAL SAFETY DATA SHEET

NO WEED PAVING RTU

Date Issued: July 2019.

Page 6 of 7

Revision No.: 5

Print Date: 28/6/19

Package product wastes:

Emptied containers retain vapour and product residues. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Non-combustible containers must first be triple-rinsed with water, punctured and recycled or disposed of.

14. TRANSPORT INFORMATION

UN NUMBER: 3082

ADR

Proper shipping name: Environmentally Hazardous Substance,Liquid,n.o.s. (Glyphosate 180 g/l)

Classification Code: M6

Class: 9

Packing Group: III

Label: 9

Hazard ID: 90

IMDG

Proper shipping name: Environmentally Hazardous Substance,Liquid,n.o.s. (Glyphosate 180 g/l)

Class: 9

Label: 9 Marine pollutant.

Packing Group: III

Marine Pollutant: Yes

ICAO/IATA

Proper shipping name: Environmentally Hazardous Substance,Liquid,n.o.s. (Glyphosate 180 g/l)

Class : 9

Label: 9

Packing Group: III

Pack Instr. Passenger: 914

Pack Instr. Cargo: 914

Tremcard Nr. CEFIC: 90GM6-III

15. REGULATORY INFORMATION

Symbol: Xi, N

Indication of danger: Irritant; Dangerous to the environment.

Risk phrases:

R20/22 Harmful by inhalation and if swallowed.

R41 Risk of serious damage to eyes.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S 2 Keep out of reach children.



MATERIAL SAFETY DATA SHEET

NO WEED PAVING RTU

Date Issued: July 2019.

Page 7 of 7

Revision No.: 5

Print Date: 28/6/19

| | |
|-------------|---|
| S 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S 39 | Wear eye/face protection. |
| S 61 | Avoid release to the environment. |

National legislation:

In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act. No. 85 of 1993)

16. OTHER INFORMATION

Compiled by: Danie Fourie

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

REFERENCES

- EPA RED, August 10, 2006.
- *The Pesticide Manual*; Eleventh Edition; Editor Clive Tomlin; Crop Protection Publications, 1997.
- HSDB (Hazardous substance Database).
- ECB-ECIS (European Chemical Substances Information System).
- EXTTOXNET PIP
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011

END OF MSDS.