

MATERIAL SAFETY DATA SHEET

PERFORMER



Reg nr.: 2004/020524/07

PLANT PROTECTION

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: PERFORMER
Adjuvant
UN No.: 3082
Supplier: Tsunami Plant Protection (Pty) Ltd
POBox 466, Heidelberg, 1438,
South Africa
Telephone: 011 812 9800
Fax: 011 812 9812
E-mail: info@tsunami.co.za
Web address: www.tsunami.co.za

24 Hr Emergency Number: 082 771 2712
In case of Poisoning:
Tygerberg Hospital: (021) 931 6129
Poison Information Centre 082 446 8946
Poison Emergency Enquiries (021) 689 5227

2. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name: mineral oil as emulsion
Other Name: petroleum oil, paraffinic complex
Use: Oil in emulsion as a spreading and penetrating agent for use with herbicides to enhance effectiveness of that product.
Formulation: mineral oil (paraffinic complex) 363 g/l
Spreading Oil, Oil Emulsion

Hazardous Ingredient:

<u>Inert:</u>	<u>concern:</u>	<u>% present:</u>
Paraffinic complex containing fatty alcohol polyethoxylated	irritant, environment risk	> 37 %
Ammonium sulphate	corrosive, irritant	> 10 %
Anionic and nonionic surfactants blend	damage eyes, irritant	> 3%
water	no risk	> 36 %

Symbol: Xi, N
Indication of danger: Irritant, Environmentally Hazardous Substance
Risk phrases: R22, R36/37/38, R52, R66

3. HAZARD IDENTIFICATION

Likely routes of exposure:

Skin: Mild irritant to the skin. Characteristic cutaneous lesions (oil globules) and dryness of skin may develop as a result of prolonged exposure and contact.

Eye: Mild irritant to the eyes. Likely to cause mild discomfort such as burning sensation, watering and redness of the eyes. Slight hazard for serious damage to eyes and may be corrosive.

Inhalation: Harmful if inhaled. High concentrations of vapours may cause irritation to the respiratory tract and mucous membranes.

Swallowed: Harmful if swallowed. Ingestion of very high quantity may result in nausea, vomiting and abdominal pain. If product is aspirated into the lungs during ingestion or vomiting, mild to severe pulmonary injury may be caused.

4. FIRST AID MEASURES AND PRECAUTIONS

Inhalation:

If vapours or mists have been inhaled, and irritation has developed, remove the source of contamination or move victim to fresh air. The patient should be kept under observation and obtain medical attention if irritation persists.

Skin contact:

Remove contaminated clothing, shoes and leather goods immediately. Gently wipe of excess chemical. Wash skin gently and thoroughly with clean water and non-abrasive soap or mild detergent until no evidence of chemical remains (approximately 15 to 20 minutes). Obtain medical attention if irritation persists. Persons who become sensitised may require specialised medical management with anti-inflammatory agents.

Eye contact:

Immediately flush eyes with clean running water for at least 20 minutes, holding the eyelid(s) open. Flush eyes immediately with large amounts of gently flowing cold water, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). Obtain medical attention if irritation persists.

Ingestion:

Do not induce vomiting. Obtain medical attention. If the person is alert, rinse mouth thoroughly with water and give water to drink. If vomiting occurs, take care to prevent vomit from being inhaled. Keep patient's head below hips to prevent aspiration. Never give anything to an unconscious person.

Advice on treatment:

There is no specific antidote available. Treat supportively and symptomatically as and when necessary.

If product is aspirated into the lungs during ingestion or vomiting, mild to severe pulmonary injury may be caused.

5. FIRE FIGHTING MEASURES

Fire and explosion hazard:

Flash point: 88 °C. **Not flammable.**

Extinguishing agents:

Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for fire fighting for later disposal.

Fire fighting:

Remove spectators from surrounding area. Remove container from fire area if possible. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind.

Personal protective equipment:

Fire may produce irritating or poisonous vapours, 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 (SPILLAGE)

Personal precautions:

Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

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Reg nr.: 2004/020524/07

PLANT PROTECTION

Environmental precautions:

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill:

For small liquid spills, soak up with lime, damp earth or sand, or other non-combustible absorbent material and place into containers for later disposal. For large liquid spills, contain the liquid for later disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away.

7. HANDLING AND STORAGE REQUIREMENTS

Handling:

Harmful if swallowed. Irritating to the skin, eyes, respiratory tract and mucous membranes. Avoid contact with eyes and skin, and inhalation of spray and vapour. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the product 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:

Do not store near sources of sparks, flame or heat. Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original labelled container in isolated, dry, cool and well-ventilated area. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site 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:

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

Respirator:

An approved respirator suitable for protection from mists of pesticides is adequate. Limitations of respirator use specified by the approved 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: Light yellowish homogenous liquid.
Odour: Characteristic petroleum solvent odour.
Flammability: Not flammable.
Flash point: 88 °C
Solubility: Forms an emulsion with water.
Density: 0.97 ± 0.05 g/ℓ
pH: 4,38

10. STABILITY AND REACTIVITY

Stability:

Chemically and thermally stable. Stable under normal temperatures and storage conditions. Stable for 2 years under normal warehouse conditions. Store at temperatures below 50 °C and above 0 °C.

Incompatibility:

Compatible with many pesticides, but incompatible with strong acids and oxidizing agents.

Hazardous Decomposition products:

Incomplete combustion produces toxic gases, such as CO, CO₂, various forms of hydrocarbons, aldehydes, etc, and NO₃, NH₃ and SO.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: > 2000 mg/kg in rats.
Acute dermal LD₅₀: > 2000 mg/kg in rats.
Inhalation: Harmful.
Acute skin irritation: Mild irritant.
Prolonged exposure may cause characteristic cutaneous lesions (oil globules) and dryness of skin.
Acute eye irritation: Mild irritant.
Slight hazard to seriously damage eyes. May be corrosive.
Toxicological effects:
No human cancer has been reported. No toxicological information is available.
ADI: Not limited.

12. ECOLOGICAL INFORMATION

Mobility:

Water: Form an emulsion.
Soil: In consideration of its physical and chemical characteristics, the product has a slight mobility in the soil.

ECOTOXICOLOGY:

The product is considered as being not dangerous to ground plants when used at the recommended dosage.
The product is considered slightly to moderately toxic to the aquatic environment.

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13. DISPOSAL CONSIDERATION

Pesticide and container disposal:

Open dumping or burning of this product is prohibited. 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.

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

TRIPLE RINSE empty containers in the following manner. Invert the empty container over the spray or mixing tank and allow to drain 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 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.

Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dump site. Prevent contamination of food, feedstuffs, drinking water and eating utensils.

14. TRANSPORT INFORMATION

UN NUMBER: 3082

Road Transport ADR/IRD:

Class: 9
Packing group: III
Shipping name: Environmentally hazardous substance, liquid, N.O.S. (mineral oil in emulsion 363 g/l)

Maritime Transport IMDG/IMO:

Class: 9
Packing group: III
Shipping name: Environmentally hazardous substance, liquid, N.O.S. (mineral oil in emulsion 363 g/l)

Considered a Marine Pollutant.

15. REGULATORY INFORMATION

Symbol : Xi, N
Indication of danger : Irritant, Environmentally Hazardous Substance

Risk phrase(s):

R 22 Harmful if swallowed.
R 36/37/38 Irritating to eyes, respiratory system and skin.
R 52 Harmful to aquatic organisms.
R 66 Repeated exposure may cause skin dryness or cracking.

Safety phrases:

S 2 Keep out of reach children.
S 13 Keep away from food, drink and animal feedingstuffs.
S 24/25 Avoid contact with skin and eyes.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
S 66 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Packaging:

Packed in 50, 100, 200, 500 ml & 1, 5, 10, 20, 25, 50, 200 & 210 l fluorinated plastic containers or lined metal drums and 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 the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

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Page 3 of 3