



MATERIAL SAFETY DATA SHEET

G49 WETTER

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Revision No.: 2
Print Date: 8/8/18

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: G49 WETTER

SUPPLIER: EFEKTO
PO BOX 652147
BENMORE
2010

TEL No. 0861 333586 office hours

EMERGENCY TELEPHONE NUMBERS:

SPILLAGES: 083 1233 911

POISONINGS:

Poisons Information Helpline 0861 555 777 (all hours)

Griffon Poison Centre 082 446 8946

Use: A surfactant that increases the wetting and spreading of various agrochemicals.

2. HAZARDS IDENTIFICATION

- Irritating
- May cause long-term adverse effects in the aquatic environment.

Likely routes of exposure:

Skin and eye contact, ingestion and inhalation.

Ingestion: Harmful when ingested.

Acute skin irritation in rabbits: Irritating.

Acute eye irritation in rabbits: Not irritating.[UCLID data base].

Dermal sensitisation: Not a skin sensitizer.

Symbol: Xn; N

Risk Phrases: R22, R 36, R53

Class: 9

UN No.: 3082

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:



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Active	CAS No.:	EC No.:
Isotridecanol 918.0 g/l	27458-92-0	248-469-2

Chemical Name: isotridecan-1-ol

Chemical Family: Surfactant

Chemical Formula: C₁₃H₂₈O

NIOSH/RTECS No.: Not available.

4. FIRST-AID MEASURES

Inhalation:

Move the victim to fresh air or remove source of contamination. Keep person warm and at rest. Treat symptomatically and supportively as and when required. Qualified personnel should perform administration of oxygen. Get medical attention immediately.

Skin contact:

Move the victim to fresh air and remove all contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash affected skin areas gently and thoroughly with water.

Eye contact:

Immediately flush the contaminated eyes with gently flowing clean water for 15 to 20 minutes, occasionally lifting the upper and lower lids. Immediately seek medical advice.

Ingestion:

Do not induce vomiting **under any circumstance**. If swallowed, rinse mouth thoroughly with water and give up to 200 ml (5 ml/kg recommended) water for dilution where patient is able to swallow, has a gag reflex and does not drool and immediately get medical attention. If vomiting occurs, keep head below hips to maintain open airway and prevent aspiration. Establish and maintain airway. **Never** give anything by mouth to an unconsciousness person. Seek medical advice.

Advice to physician:

To treat poisoning by higher aliphatic alcohols administer gastric lavage with copious amounts of water. It may be beneficial to instil 60 ml of mineral oil into the stomach. Administer oxygen and artificial respiration as needed. To protect the liver, maintain carbohydrate intake by intravenous infusions of glucose.

Basic treatment: Where necessary, monitor and treat for shock, pulmonary oedema and seizures. **DO NOT** use emetics. Give activated charcoal.

Advanced treatment: Monitor and treat for arrhythmias where necessary. Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred. If signs of hypovolaemia are present use lactated Ringers solution. If the patient is hypoglycaemic, give 50% dextrose. Drug therapy should be considered for pulmonary oedema. Treat seizures with diazepam.

5. FIRE-FIGHTING MEASURES



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Fire and explosion hazard:

Product burns with difficulty.

Explosion and burn hazard when exposed to heat or flames, but does not readily ignite.

Hazardous products of combustion:

Fire may produce irritating, corrosive and/or toxic oxides of carbon.

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. Avoid the accumulation of polluted run-off from the site.

Fire fighting:

Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal.

Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways. Do not use high volume water jet, due to contamination risk. Contain water used for fire fighting for later disposal.

Avoid the accumulation of polluted run-off from the site.

Personal protective equipment:

Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus. Keep upwind.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

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

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. Considered as Marine Pollutant.

Occupational spill:

Do not touch-spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

For spills: Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. Label containers with its content and dispose it in accordance

with local regulations. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind.

Open burning or dumping of this material is prohibited. Do not get water inside containers.

7. HANDLING AND STORAGE



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Handling:

Harmful in contact with skin and if swallowed. Irritating to eyes and skin. 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 nonabrasive 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:

Keep 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. Keep away from incompatible substances. Local regulations should be complied with.

8. EXPOSURE CONTROLS/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 eyewash: 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: Liquid.
Colour: Clear
Odour: Mild odour.
Flash point: 122 °C.
Viscosity, dynamic: Ca. 150 mPas (20 °C)
pH: 5-7 (200C)
Density: ca. 1.02 g/cm³ (20 °C)



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Water solubility: Completely miscible @ 20 °C

10. STABILITY AND REACTIVITY

Stability:

Chemically and thermally stable.

Storage stability:

Stable for a period of 2 years under normal warehouse conditions.

Incompatibility:

Not compatible with acids and oxidising materials. Corrosive to metal.

Thermal decomposition products:

Thermal decomposition products may include oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ in rats: >2000 mg/kg

Acute dermal LD₅₀ in rats: >2000 mg/kg [*Alcohols, C8-18, ethoxylated*]

Inhalation: No mortality after 8H @20 °C

Acute skin irritation in rabbits: Irritating.

Acute eye irritation in rabbits: Not irritating.[UCLID data base]

Dermal sensitisation: Not a skin sensitizer.

12. ECOLOGICAL INFORMATION

Degradability, Mobility and Accumulation:

The product is readily biodegradable, >70% in 28 days.

ECOTOXICOLOGY:

Fish:

Isotridecanol:

Toxic to fish

Freshwater fish LC₅₀:

Leucices idus: 4.6 mg/l

Pimephalus promelas: 0.33 mg/l

Daphnia magna EC₅₀: 0.62 mg/l

Algae EC₅₀:

Scenedesmus subspicatus: 1.8 mg/l[72h]

Alcohols, C8-18, ethoxylated:

LC₅₀ (96hrs): *Cyprinus carpio*: 1-10 mg/l

LC₅₀ (24hrs): *Daphnia magna* 1-10 mg/l

Daphnia: Toxic to daphnia

Algae:

EC₅₀ (96hrs) *Scenedesmus subspicatus*: 1-10 mg/l



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Product is considered a water pollutant.

13. DISPOSAL CONSIDERATIONS

Product disposal:

Open dumping or burning of this product 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.

Container disposal:

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

Packaging:

Triple rinse empty containers in the following manner:

Invert the empty 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 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 dumpsite. Prevent contamination of food, feedstuffs, drinking water and eating utensils.
Comply with local legislation applying to waste disposal.

14. TRANSPORT INFORMATION

UN: 3082

ADR/RID:

Shipping name: Environmentally hazardous substance, liquid, n.o.s. (Isotridecanol 918g/l)
Substance ID no.: 3082
Hazard ID no.: 90
Label: 9
Item no.: 11°(c)

IMDG/IMO:

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Isotridecanol 918g/l)
Class: 9
Packaging group: III

ICAO/IATA:

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Isotridecanol 918g/l)
Class: 9
Packaging group: III

Tremcard number 90GM6-III



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15. REGULATORY INFORMATION

Symbol: Xn; N

Indication of danger: Harmful; Dangerous to the environment.

Risk phrases:

R 22 Harmful if swallowed.

R 36 Irritating to skin.

R53 May cause long-term adverse effects in the aquatic environment.

Safety phrases:

S 26 In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water.

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

- UCLID Data Set, Isotridecanol CAS No: 27458-92-0; EINCES No: 248-469-2; European Chemicals Buro, 18 February 2000.
- Similar product MSDS,
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011



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