



MATERIAL SAFETY DATA SHEET

SUBJECT: ECO FUNGIMITE
EFFECTIVE DATE: JUNE 2010
REVISION DATE: MAY 2014
REVISION NO: 1
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1. PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER **EFEKTO**
PO Box 654127
BENMORE
2010

EMERGENCY TELEPHONE NUMBERS
SPILLAGES:
Emergency telephone: 083123 3911

POISONINGS:
National Poison Centre: 021-9386084 (office hours).
021-9316129 (after hours).

Trade name: ECO FUNGIMITE

Use: A suspension concentrate fungicide and acaricide for the control of Powdery mildew, other fungal diseases, certain mites and thrips in various crops as indicated on the label.

Do NOT induce vomiting. Give a glass of water if able to swallow. Seek medical attention.

Inhalation:

Prolonged inhalation may cause irritation of the respiratory tract. Breathing of dust may aggravate asthma.

Eyes:

If this product comes into contact with eyes, remove contact lenses, hold eyes open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them.

Skin:

Remove contaminated clothing. Rinse skin with plenty of water for 15 minutes.

First Aid:

For large amounts ingested, if the victim is conscious and alert, give two or more glasses of water to drink. If available, give one tablespoon of Syrup of Ipecac to induce vomiting. If vomiting does occur, give fluids again. If vomiting has not occurred in twenty minutes, the same dose of Syrup of Ipecac may be repeated one additional time. Alternatively, vomiting may be induced by touching the back of the throat with a finger. Do not give anything by mouth to an unconscious or convulsing person.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Family: Sulphur
Active ingredient: Sulphur 800 g/l
Balance: Water and biocide.
CAS No.: 7704-34-9
EC No.: 231-722-6
UN No.: Not regulated.
Risk Phrase: R36/38

5. FIRE FIGHTING MEASURES

Fire and explosion hazard:

Flowable sulphur[Suspension concentrate], is not a fire or explosion hazard; however flowable sulphur that is allowed to dry and is then pulverized should be treated as sulfur dust. Sulphur dust suspended in air ignites easily, and can cause an explosion in confined areas. May be ignited by friction, static electricity, heat, sparks, or flames. Toxic gases will form upon combustion.

Flashpoint:

>200 °C

Extinguishing Media:

Use water fog, spray, or regular foam. Do not use a direct water stream.

Special fire fighting procedures:

Wear full-faced, self-contained breathing apparatus and full protective clothing.

Unusual fire & explosion hazards:

Burning Sulfur:

Will decompose into TOXIC sulphur oxide gasses such as: sulphur dioxide and Hydrogen sulfide.

Polymerization:

This product is unlikely to spontaneously polymerize. No particular incompatibilities.

3. HAZARDS IDENTIFICATION

Sulphur is essentially non-toxic either through ingestion, inhalation, skin or eye contact.

Health Effects:

- Harmful if swallowed.
- May cause irritation of the nose throat and skin.

4. FIRST AID MEASURES

If swallowed:



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6. ACCIDENTAL RELEASE MEASURES

Take care to avoid the contamination of watercourses and drains and inform the appropriate authority in case of accidental contamination of watercourses.
Stop leaks if safe to do so, and contain spill.
Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage.
After spills, wash area, preventing runoff from entering drains.
If a significant quantity of material enters drains, advise emergency services.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet.

Storage:

Containers should be stored in a cool, dry, well-ventilated area. Containers should be kept closed in order to minimise contamination. Adhere to local regulations.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limits:

No exposure limits have been established.

Engineering Controls:

If you believe air borne concentrations of mists, or vapours are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection: Maintain a sink, safety shower and eyewash fountain in the work area.

Respiratory Protection:

If there is a significant chance of vapours or mists accumulating in the area where this product is being used, a mask or respirator should be used.

Protective Gloves: Impermeable protective gloves should be worn when you are using this product. Failure to do so will lead to irritation of the skin.

Eye Protection: Protective eyewear should be worn when using this product. Eye contact may prove painful and dangerous and should be avoided.

Clothing: Clean overalls or protective clothing should be worn, preferably with an apron.

Safety boots: Wearing safety boots in industrial situations is advisory. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow suspension.
Odour: Sulphur odour
Solubility: Disperses to form an emulsion in water.
Density: 1.40
pH: 6.2 – 6.5
Boiling point: Not available

10. STABILITY AND REACTIVITY

Storage stability:

Stable for up to 2 years under normal cool, dry shaded warehouse conditions.

Conditions to avoid (Instability): Keep away from heat sources, sparks, and open flames.

Materials to avoid (Incompatibility): Charcoal, halogens, ammonia compounds, oxidizing agent's react violently. Corrosive to copper and copper alloys. Damp sulphur will corrode steel.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Oxides of sulfur gasses produced by burning sulfur.

11. TOXICOLOGICAL INFORMATION

This product is practically non toxic to humans and animals.

Acute oral LD₅₀ [Rats]:

5000 mg/kg

Acute dermal LD₅₀[Rats]:

>2000 mg/kg

Acute inhalation LC₅₀ [Rats](4hour):

>5.49 mg/L air concentration.

Acute skin irritation:

Slight skin irritation.

Acute eye irritation:

Irritating to the eyes.

Dermal sensitisation:

Not a skin sensitizer..

Carcinogenicity/ Teratogenicity/ Mutagenicity:

The ingredients are not listed as carcinogenic in Worksafe's Australia, document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:



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Birds: Sulphur is considered non-toxic to birds. The 8-day dietary LC₅₀ for bobwhite quail is reported to be greater than 5,620 ppm in a study using a 95% sulphur wettable powder formulation. In studies on ecological effects involving bobwhite quail, sulphur has been shown to be practically non-toxic to the species tested.

Fish: The 96-hour LC₅₀ values for two fish species, bluegill sunfish and rainbow trout, are greater than 180 ppm in a study using a 99.5% sulphur dust formulation.

Daphnia: The 48-hour LC₅₀ for daphnia and the 96-hour LC₅₀ for mysid shrimp is reported to be greater than 5,000 and 736 ppm, respectively, in a study using 90% sulphur.

Bees: Sulphur is considered non-toxic to bees. In studies on ecological effects involving honeybees, sulphur has been shown to be practically non-toxic to the species tested. Thus, although there is potential for non-target organisms to be exposed to sulphur, little hazard to these species is expected to result.

13. DISPOSAL CONSIDERATIONS

Please triple rinse container before disposal in a landfill or by incineration.

14. TRANSPORT INFORMATION

UN NUMBER: Not regulated for any mode of transport.

15. REGULATORY INFORMATION

Symbol: Xn-Harmful; Xi – Irritant.

Risk phrases:
R36/ 38 Irritating to the eyes and skin.

Safety phrases:
S 2 Keep out of the reach of children.
S24/25 Avoid contact with skin and eyes.
S 46 If swallowed seek medical advice and show this container or label.

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

Prepared 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 recipient's sole responsibility to ensure the transfers of all relevant information from this MSDS to their own MSDS.

REFERENCES

- ECB-ESIS (European chemical Information System).
- SABS 0265:1999.
- Similar product MSDS.

END OF MSDS.