



# MATERIAL SAFETY DATA SHEET

## NITROSOL

**Date Issued:** April 2011 and is valid for 3 years from this date.

Page 1 of 4

**Revision No.:** 1

**Print Date:** 3/10/14

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** NITROSOL

**SUPPLIER:** EFEKTO

PO BOX 652147

BENMORE

2010

**TEL No.** 011 287 5700

#### EMERGENCY TELEPHONE NUMBERS:

**SPILLAGES:** 083 1233 911

**Fax:** 086 685 3129

#### POISONINGS:

**National Poison Centre** 021-9386084 (office hours).

021-9316129 (after hours).

082 446 8946

**Use:** Provides a complete life support for all plants, acid or lime loving plants, shrubs, ornamental or fruit trees, bedding and vegetable seedlings, groundcovers and lawns.

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### 2. HAZARDS IDENTIFICATION

**Likely routes of exposure:** Skin and eye contact, ingestion and inhalation.

**Inhalation:** Not harmful.

**Skin:** Will have a burning sensation if skin is cut

**Ingestion:** d. Swallowing may result in nausea, vomiting, and abdominal pain.

**Eyes:** Eye contact may cause mild irritation

**Carcinogenicity:** None

**Medical Conditions Generally Aggravated By Exposure:** None Known

**Risk phrases:** None.

**UN No.:** Not regulated

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Active ingredients:**



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## NITROSOL

**Date Issued:** April 2011 and is valid for 3 years from this date.

Page 2 of 4

**Revision No.:** 1

**Print Date:** 3/10/14

Active ingredients.	CAS No.:	EC No.:
N;P;K	-	-
NPK, Magnesium, Calcium, Sulpher, Micro nutrients	-	
Growth hormone	-	-

**Discussion:** Contains 14 of the most essential elements: NPK, Magnesium, Calcium, Sulpher, Micro nutrients and a Growth hormone for healthy plant growth, in a sustained non-leaching formulation

**Chemical Name:** Natural organic fertilizer.

**Chemical Family:** Fertilizer

**Chemical Formula:** None

**NIOSH/RTECS No.:** Not available.

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#### 4. FIRST-AID MEASURES

**Ingestion:** Do not induce vomiting. Rinse mouth with water.

**Eye Contact:** Flush with water for 15 minutes. Get medical attention if irritation persists.

**Skin Contact:** Flush with water. Get medical attention if irritation persists

**Advice to physician:** treat symptomatically.

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#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:**

Use water spray, carbon dioxide, dry chemical powder or foam. Wear self-contained breathing apparatus. May emit toxic fumes under fire conditions.

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#### 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Contain spill and recover product for use or disposal.

**Caution:** Might be slippery

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#### 7. HANDLING AND STORAGE

**Handling:** Ensure sufficient workplace ventilation.

**Advice on protection against fire and explosion:** No special requirements against fire and explosion

**Storage:**

Store in a cool dry area. Keep container closed when not in use. Keep out of reach of children.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits:** None



# MATERIAL SAFETY DATA SHEET

## NITROSOL

**Date Issued:** April 2011 and is valid for 3 years from this date.

Page 3 of 4

**Revision No.:** 1

**Print Date:** 3/10/14

---

**Respiratory protection:** If mist or dust conditions should be present use approved respirator .

**Ventilation:** Adequate ventilation required to maintain fresh air flow.

**Local exhaust:** Adequate

**Eyes and face:** Adequate eye protection

**Hands, arms and body:** Prevent skin contact.

**Work/hygienic practices:** Wash all clothing before wearing. Wash all exposed skin surfaces with soap and water after using this product.

**Special equipment:** Eye bath, safety shower.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Liquid suspension

**Colour:** Brown

**Odour:** Organic.

**Flash point:** None

**Boiling point:** 100 °C

**Density:** 1.3

**Solubility in water:** Soluble.

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### 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions.

**Conditions to avoid:** None

**Materials to avoid:** Strong Acids or Alkali and strong Oxidizers.

**Hazardous decomposition or byproducts:** Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus.

**Hazardous polymerization:** Will not occur.

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### 11. TOXICOLOGICAL INFORMATION

**Ingestion:** Swallowing may result in nausea, vomiting, and abdominal pain.

**Inhalation:** Not expected to cause respiratory irritation.

**Skin:** Will have a burning sensation if skin is cut

**Eyes:** Eye contact may cause mild irritation

**Carcinogenicity:** None

**Medical Conditions Generally Aggravated By Exposure:** None Known

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### 12. ECOLOGICAL INFORMATION

No information.

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### 13. DISPOSAL CONSIDERATIONS

**Product:** Dispose of whilst observing local legal regulations.

**Contaminated packaging:** Undamaged packaging may be responsibly reused after proper cleaning

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### 14. TRANSPORT INFORMATION



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## NITROSOL

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Page 4 of 4

**Revision No.:** 1

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**UN No.:** Not regulated.

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### 15. REGULATORY INFORMATION

**Symbol:** None

**Risk phrases:** None.

**Safety phrases:**

**S1/2** Keep locked up and out of reach of Children.

**S25** Avoid contact with eyes.

**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)

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### 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

- Fleoron data.
- 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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**END OF MSDS.**