



MATERIAL SAFETY DATA SHEET

WONDER AMMONIUM SULPHATE

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

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Revision No.: 3

Print Date: 3/10/14

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: WONDER AMMONIUM SULPHATE.

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: A Nitrogen containing fertilizer for use on alkaline soils or on plants that require acid conditions, e.g. Azaleas and Blue hydrangeas.

2. HAZARDS IDENTIFICATION

- May cause irritation.

Likely routes of exposure:

Skin and eye contact, ingestion and inhalation.

Skin Contact: May irritate the skin.

Eye Contact: May irritate the eyes.

Ingestion:

Small quantities are unlikely to cause toxic effect.

Ingestion of large quantities can cause severe gastrointestinal irritation and, muscular weakness. In extreme cases (particularly in very young), formation of methaemoglobin ('Blue baby' syndrome) and cyanosis (indicated by blueness around the mouth) may occur.

Inhalation: Inhalation of dust may irritate nose, throat, and lungs.

Long term effects: No adverse effects are known.

UN No.: Not regulated.

Risk Phrase: R22



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:

Active ingredients.	CAS No.:	EC No.:
Ammonium Sulphate [contains 21% ammoniacal nitrogen].	7783-20-2	231-984-1

Components: Essentially pure ammonium sulphate with a small amount of moisture'

Chemical Name: Di-ammonium sulphate

Chemical Family: Fertilizer

Chemical Formula: $(\text{NH}_4)_2\text{SO}_4$

NIOSH/RTECS No.: Not available.

4. FIRST-AID MEASURES

Fertilizers are basically harmless products when handled correctly.

Skin Contact:

Wash the affected area with soap and water.

Eye Contact:

Flush/irrigate eyes with copious amounts of water for at least 10 minutes.

Obtain medical attention if eye irritation persists.

Ingestion:

Do not induce vomiting. Give water or milk to drink.

Obtain medical attention if more than a small quantity has been swallowed or when relevant symptoms occur after swallowing.

Inhalation:

Remove from source of exposure. Obtain medical advice if ill effects occur.

Advice to physician: No antidote. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing agents:

Extinguish small fires with water, carbon dioxide, dry powder, or alcohol-resistant foam.

Firefighting:

Remove containers from fire area if possible. Contain fire control agents for later disposal. Use a recommended extinguishing agent. Water can be used to cool unaffected containers. Avoid inhaling hazardous vapours. Keep upwind.



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Hazardous Decomposition Products: If heated to decomposition, may give off ammonia as well as oxides of sulfur.

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

Any spillage of fertilizer should be swept up and placed in a clean, labelled open container for safe disposal. Depending on the degree and nature of contamination, dispose of by use as a fertilizer or to an authorised waste facility.

Take care to avoid the contamination of watercourses and drains and inform the appropriate authority in case of accidental contamination of watercourses.

7. HANDLING AND STORAGE

Handling:

Avoid excessive generation of dust.

Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up.

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

Storage:

Keep product in a dry place. Fertilizer granules deteriorate in damp conditions. Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up.

Keep containers tightly closed, in a well-ventilated place. Store away from food, drink and animal feeding stuffs.

Keep away from children and unauthorised adults. Adhere to local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

According to Treshold Limit Value of nuisance dust: 10 mg/m³ total dust; 5 mg/m³ respirable dust.

Precautionary and engineering measures:

Avoid contact and provide ventilation where necessary.

Personal Protection:

Wear suitable gloves when handling the product over long periods.

After handling product, wash hands and observe good hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystals.

Colour: White to grey.

Odour: None

Flammability: Not Flammable.



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Explosive properties: No data.

Bulk Density: 1000-1100kg/m³.

pH: 4-6 (10% sol.)

Solubility at 20 °C (g/L): 760g/l at 20°C. Product is hygroscopic.

10. STABILITY AND REACTIVITY

Storage stability:

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

Conditions to avoid: Moisture

Materials to avoid: Alkalies, strong acids, copper and its alloys. Increases explosion hazard of ammonium nitrate when mixed together

Hazardous decomposition products: Ammonia is released upon reaction with bases.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: >2000mg/kg

Acute dermal LD₅₀: No Data.

Acute inhalation LC₅₀: May irritate respiratory tract when inhaled, sore throat, coughing.

Acute skin irritation: May irritate the skin.

Acute eye irritation: Could cause irritation.

Dermal sensitisation: No information.

Carcinogenicity/ Teratogenicity/ Mutagenicity: No information

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

Fish:

LC₅₀ (fish, 96 h.): > 10 mg/l

EC₅₀ (daphnia, 48 h.): > 10 mg/l

EC₅₀ (algae): > 10 mg/l

Mobility: Mobile; Highly water soluble.

Bioaccumulation: No bioaccumulation potential

Ammonium sulphate is a nitrogen fertilizer. Heavy spillage may cause adverse environmental impact such as eutrophication in confined surface waters

Harmful to aquatic organisms.

Increases in pH above 7, 5 will lead to an increased load of non-ionised ammonia which is markedly more toxic to aquatic life.



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13. DISPOSAL CONSIDERATIONS

Fertilizer disposal:

Depending on degree and nature of contamination, dispose of by use as fertilizer by spreading or to an authorized waste facility.

Packaging:

Emptied containers retain vapour and product residues. Observe all labeled safeguards until container is destroyed. Combustible containers should be disposed of in pesticide incinerators.

14. TRANSPORT INFORMATION

UN No.: Not regulated.

15. REGULATORY INFORMATION

Symbol: None

Risk phrases:

R22 Harmful if swallowed.

Safety phrases:

S 1/2 Keep locked up and out of reach of children.

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

- European Fertilizer Manufacturers association, "Guidance for Compilation of safety Data Sheets for Fertilizer Materials", Ammonium Sulphate.
- Duchefa Biochemie B.V.; Ammonium Sulphate MSDS, 2001.



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- ADR 2011, Part 3.
 - IMDG Code, 2005 Edition, Vol. 2.
 - IATA Dangerous goods regulations, Effective 1 January 2011

END OF MSDS.