

Safety Data Sheet (SDS) DOU SL/02

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According to UN GHS 9th Ed
Revision Date: 2023/05/05

First print date: 2015/07/24

Version: 1.3

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: **Agro-CalMag**

Additional information: Product code DOU SL/02

Relevant identification uses of the substance and uses advised against:

Identified uses: Plant fertilizer for foliar application.

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

AECI Limited
14 Field Road, LILANTON

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946
Poisons Information Helpline: 0861 555 777
AECI Limited: (011) 823 8000 (o/h) Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to:

SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Not hazardous.	None required.

The most important adverse effects

The most important adverse physiochemical effects: None known.

The most important adverse human health effects: None known.

Label elements:

Hazard pictograms: None required.

Signal Word: None required.

Hazard Statements: None required.

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Precautionary Statements:

General

Statement Number	Statement
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P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

No other Precautionary Statements are required.

Special labelling of certain mixtures: None.

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Within the current knowledge of the supplier and in the applicable concentrations, there are no ingredients present in this fertilizer that are classified as hazardous to health or the environment that subsequently cause/contribute towards a GHS classification, and that require reporting in terms of the South African Regulations for Hazardous Chemical Agents - 2021; Regulation 14(b).

Occupational exposure limits, if available, are listed in section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

General advice: Remove contaminated clothing and move the affected person from the contamination area. Keep the comfortable, calm, and covered up. First aid personnel should pay attention to their own safety. In case of accident or if unwell, seek medical advice. Provide this SDS and the label to medical personnel for treatment.

In case of inhalation: If inhaled, remove the person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep person at rest and warm. Obtain medical advice if necessary.

In case of skin contact: In case of contact, flush skin with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical advice if irritation occurs and persist.

In case of eye contact: Check for and remove any contact lenses. In case of contact, hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Cold water may be used. Obtain medical advice if irritation occurs and persists.

In case of ingestion: If large amounts are swallowed, obtain medical advice. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If conscious, rinse mouth thoroughly with water. Should vomiting occur, keep the patient's head low so that stomach content doesn't get into the lungs. If possible, do not leave victim unattended and observe closely for adequacy of breathing.

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Most important symptoms and effects, both acute and delayed:

Inhalation: None know.

Ingestion: May be harmful if large amounts are swallowed.

Skin contact: None know. Prolonged exposure may cause irritation in sensitive individuals.

Eye contact: None know. Direct contact may produce irritation in sensitive individuals.

Indication of any immediate medical attention and special treatment needed:

There is no specific antidote. Treat symptomatically and supportively.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Use foam, dry chemical powder, or carbon dioxide.

SMALL FIRE: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

LARGE FIRE: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

Unsuitable extinguishing media: Do not use high volume water jet due to contamination risk.

Special hazards arising from the mixture:

Nature of decomposition products not known for the product. Oxides of carbon, calcium, and magnesium are expected to be released during burning and decomposition.

Advice for fire-fighters:

Stay at a maximum distance and avoid inhaling of vapours. Keep container cool by spraying with water.

Protective respirator with independent air supply not required, unless there is a potential for exposure to particles which could cause discomfort.

Act in accordance with the site's Internal Emergency Plan and the Workplace Specific Procedures for actions to be taken after an accident or other emergencies.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Avoid contact with skin, eyes, and clothing.

For emergency responders: Do not breathe in fumes/vapour and avoid contact of the spilt material with eyes, skin, or clothes. Wear appropriate protective clothing recommended in Section 8 of the SDS. Isolate the spill area and limit the access to emergency responders only. Ventilate the area of the spill or leak, especially when in confined areas. Do not walk through spilled material as it could be slippery when spilt. Contain spills if it can be done without risk and clean-up immediately.

Environmental precautions:

Cover drains. Prevent from entering soil, ditches, sewers, waterways and/or groundwater.

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Methods for containment and cleaning up:

For small spills Cover with inert absorbent material and sweep up. Place into a labelled waste container with a shovel and cover for subsequent disposal. Dispose of collected spilt material according to local and national requirements.

For large spills. Prevent entry into sewers, water courses, basements, or confined areas. Contain and collect spillage with suitable absorbent material e.g., spill pillows, commercial absorbent, vermiculite, or absorbent pads/rolls/scatter, and place in labelled container for safe and responsible disposal according to local regulations.

Reference to other sections:

See section 1 for emergency contact information.

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information:

None known.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product. Regular cleaning of work area and work clothing is recommended. Maintain good normal industrial hygiene and housekeeping practices in areas where the product is used/handled. Wash the hands before breaks and at the end of the shift.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area. Keep containers tightly closed and sealed in a cool, well-ventilated place. Keep in properly labelled containers and out of reach of children, uninformed persons, and animals. Protect containers from physical damage and check the condition of storage containers periodically (e.g., for leaks).

Specific end uses:

Use as directed on the label. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): No occupational exposure limits for the ingredients have been established by the South African Department of Employment and Labour.

Biological exposure indices (BEI): None.

Additional exposure limits under the conditions of use: No information available.

Exposure control:

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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Hygiene measures: Wash hands, forearms, and face thoroughly after handling the product, before eating, smoking, and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location and are easily accessible. Handle the product in accordance with good industrial hygiene and safety practice. Keep the product away from food, drink, and animal feeding stuffs.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses are recommended if there is a potential for exposure to liquid splashes and spray mist.

Hand protection: Use chemical resistant gloves when handling the product. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing e.g., coveralls, aprons, shoes, and socks are recommended to prevent skin contact and contamination of personal clothing.

Respiratory protection: Respiratory protection is required when ventilation is inadequate, or discomfort is experienced; use an approved air-purifying respirator. Respiratory protection should be worn in operations where the risk assessment indicates that there could be a high level of exposure to vapours/mist.

Environmental exposure controls: Prevent product from entry into storm water, sewers, and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form): Homogenous opaque liquid.

Colour: Brown.

Odour: No information available.

Odour threshold: No information available.

pH (at concentration): 4.5-5.0 (100%).

Melting point/range (°C): No information available.

Boiling point/range (°C): No information available.

Flash point (°C): No information available.

Evaporation rate: No information available.

Flammability (solid, gas): No information available.

Ignition temperature (°C): No information available.

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Upper/lower flammability/explosive limits: No information available.

Vapour pressure (20°C): No information available.

Vapour density: No information available.

Density: 1.270-1.280 g/cm³.

Water solubility (g/l) at 20°C: Soluble in water.

n-Octanol/Water partition coefficient: No information available.

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity, dynamic (mPa s): No information available.

Physical hazards:

Explosive properties: Not explosive.

Other information:

Fat solubility (solvent-oil to be specified): No information available.

Bulk density: No information available.

Dissociation constant in water (pKa): No information available.

Oxidation-reduction potential: No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Chemical stability:

Stable under normal storage conditions for 2 years.

Possibility of hazardous reactions:

No information available.

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Conditions to avoid:

Avoid mist/vapour formation and storage without ventilation. Avoid excessive heat and moisture conditions during storage.

Incompatible materials:

None known for the product.

Hazardous decomposition products:

No information available. Oxides of carbon, calcium and magnesium are expected in case of fire.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Information on likely routes of exposure:

The main routes of exposure to the product will be dermal and inhalation. Ocular exposure is also possible.

Information on toxicological effects:

Acute toxicity: Test data are not available for the product. Assessment of acute toxicity is based on ingredient data. The product is of low acute toxicity.

Chronic toxicity: No information available.

Skin corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

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SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

No eco-toxicological data are available for the product. This ecological assessment is based on data available for the ingredients. The product is not harmful to aquatic life.

Bioaccumulative potential:

No information available.

Mobility in soil

Soluble in water and expected to be mobile in soil.

Results of PBT& vPvB assessment:

No information available.

Other adverse effects:

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Consider suitable waste recycling, re-use, or recovery options. Dispose of in accordance with municipal, provincial, and national regulations.

Dispose of and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

Do not use empty containers for any other purpose. Special help is available for the disposal of Agricultural Chemicals. The product label will supply general advice regarding disposal of small quantities, and how to cleanse containers. Avoid and minimize the generation of waste.

Product/ packaging disposal:

Dispose of as required by the legislation. Do not reuse or refill containers. Triple rinse container (or equivalent) promptly after emptying and offer for recycling or re-conditioning - if available options.

SECTION 14. TRANSPORT INFORMATION

Transport classification:

The product is not classified for the transport of dangerous goods purposes.

Inland waterways: Not required.

Emergency response information: See Section 1.

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SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH).

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP].

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228: 2012 - The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No.

SECTION 16. OTHER INFORMATION

Indication of changes:

All sections updated.

Training instructions:

Use as indicated on the label, special training may be required for application.

Key Abbreviations:

AND	European Provisions concerning the International Carriage of Dangerous Goods by inland Waterways
ADR	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CAS Number	Chemical Abstracts Service Number
COD	Chemical Oxygen Demand
EC ₅₀	Half Maximal Effective Concentration
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
IMDG	International Maritime Dangerous Goods
LD ₅₀	Lethal Dose 50
LC ₅₀	Lethal Concentration 50
RID	The Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TWA	Time Weighted Average
UN	United Nations

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.