



SAFETY DATA SHEET

EKOT® 15-8-12+2MgO

Date of Issue : 13th Jan 2022

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Name	: EKOT® 15-8-12+2MgO
Use of the Substance/Mixture	: Fertilizer / Agriculture Use
Company Identification	: G-PLANTER SDN. BHD. (200401005370) No. 11 A, Jalan Mahsuri, Kawasan Perindustrian Kluang 1, 86000, Kluang, Johor.
Office Phone	: + 6 07-7878488
Fax No.	: + 6 07-7878480
Emergency Telephone No.	: 999

SECTION 2 - HEALTH HAZARD IDENTIFICATION

Classification (REGULATION (EC) No 1272/2008) :

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification(67/548/EEC,1999/45/EC) :

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Labelling(REGULATION (EC) No 1272/2008) :

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Labelling according to EC Directives (1999/45/EC)**Further information :**

In accordance with EC directives or respective national law,The product does not need to be classified nor labeled.

Further information :

German "Hazardous Substances" legislation (Gefahrstoffverordnung) appendixl, No.5 (Ammonium Nitrate group B II).

Other hazards :

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

SECTION 3 - COMPOSITION INFORMATION ON INGREDIENTS

Chemical mixture :

Fertilizer.

NPK-fertilizer containing: Ammonium nitrate, ammonium salts, phosphates, potassium sulphate, magnesium sulphate, salts of potassium and possibly magnesium and trace elements.



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Hazardous Components :

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Ammonium Nitrate	6484-52-2229-347-8 01-2119490981-27-0050	O; R 8 Xi; R36	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 10 - <= 45
Disodium tetraborate pentahydrate	12179-04-3215-540-4 01-2119490790-32-XXXX	T; Repr.Cat.2; R60-R61	Repr. 1B; H360FD	<= 0,2

For the full text of the R-phrases mentioned in this section, see section 16.

For the full text of the H-Statements mentioned in this section, see section 16.

SECTION 4 - FIRST AID MEASURES

General Advice :

Wash hands with water as a precaution.

Inhalation :

If inhaled, keep patient calm, remove to fresh air, and seek medical attention.

If unconscious, place in recovery position and seek medical advice.

In case of lung irritation, first treatment with dexametason aerosol (spray).

Skin contact :

Wash off with soap and water.

Eye contact :

In case of contact with eyes, rinse immediately Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion :

If swallowed, clean mouth with water and drink afterwards plenty of water.

Symptoms :

Ingestion may provoke the Methaemoglobinemia symptoms.

Treatment :

Treat according to symptoms (decontamination, vital functions), treat with toluonium chloride to reverse methaemoglobinanaemia.



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SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing media :	Water.
Unsuitable extinguishing media :	Foam, dry chemical, carbon dioxide (CO ₂) and sand.
Specific hazards during firefighting:	At temperatures above 130 °C, dangerous decomposition gases can be emitted: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia
Special protective equipment for firefighters:	In the event of fire, wear self-contained breathing apparatus.
Further information :	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions :	Keep away from children.
Environmental precautions :	Do not empty into drains. Retain and dispose of contaminated wash water.
Clean-up methods :	Use mechanical handling equipment.
For personal protection see section 8.	

SECTION 7 - HANDLING AND STORAGE

Advice on safe handling:	Keep away from direct sunlight. Protect from contamination. Protect against heat. Protect from moisture.
Advice on protection against fire and explosion:	The product is not flammable. Keep away from heat and sources of ignition. Keep away from combustible materials.
Requirements for storage areas : and containers :	Keep away from heat. Keep away from sources of ignition - No smoking. Keep away from combustible material. Protect from contamination. When stored loose do not mix with other fertilizers. Protect against humidity (product is hygroscopic and tends to cake or disintegrate).
Advice on common storage :	Store well away from other substances.



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German storage class :	5.1CS Oxidising Solids.
Specific end uses :	Consult the technical guidelines for the use of this substance/mixture.

SECTION 8 - EXPOSURE CONTROL/ PERSONAL PROTECTION

CONTROL PARAMETERS

DNEL

Ammonium Nitrate :

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Specific effects
Exposure time: 1 d
Value: 37.6 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Specific effects
Exposure time: 1 d
Value: 21.3 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Specific effects
Exposure time: 1 d
Value: 12.8 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Specific effects
Exposure time: 1 d
Value: 12.8 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Specific effects
Exposure time: 1 d
Value: 11.1 mg/m³



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PNEC	Fresh water
Ammonium Nitrate :	Value: 0.45 mg/l
	Marine water
	Value: 0.045 mg/l
	Ceiling Limit Value
	Value: 4.5 mg/l
Respiratory protection:	Breathing apparatus only if aerosol or dust is formed.
	Particles filter EN 143 Type P1, low efficiency, (solid particles of inert substances).
Hygiene measures:	At the end of the shift the skin should be cleaned and skincare agents applied.
General advice:	Do not empty into drains.
	Retain and dispose of contaminated wash water.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Solid
Colour:	Various
Odour :	Odourless
pH:	ca. 5, Concentration: 100,00 g/l, 20 °C.
Flash point :	Not relevant
Water solubility :	Soluble
Thermal decomposition :	ca. 130 °C, To avoid thermal decomposition, do not overheat. The product is capable of self-sustaining progressive thermal decomposition.
Oxidizing properties :	Not applicable.
Bulk density :	ca. 1.150 kg/m ³

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Stable under recommended storage conditions.
Chemical stability:	No decomposition if stored and applied as directed, Decomposes on heating.
Hazardous reactions:	Evolution of ammonia under influence of alkalis.
Conditions to avoid	Keep away from heat and sources of ignition.



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Materials to avoid : Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder, herbicide, chlorinated hydrocarbons, organic compounds.

Hazardous decomposition products: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, Ammonia.

SECTION 11 - TOXICOLOGY INFORMATION

Acute oral toxicity : LD50: > 2.000 mg/kg, rat.
Skin corrosion/irritation : rabbit, Result: non-irritant, OECD Test Guideline 404.

Serious eye damage/eye irritation : rabbit, Result: non-irritant, OECD Test Guideline 405.

Further information : The product was not tested. The statement was derived from products of similar structure and composition.

Ammonium Nitrate

Acute oral toxicity : LD50: > 2.950 mg/kg, rat, OECD Test Guideline 401
Acute inhalation toxicity : > 88,8 mg/l, No information available., Not relevant because of low vapour pressure., Not relevant because of low dust formation.

Acute dermal toxicity : LD50: > 5.000 mg/kg, rat, OECD Test Guideline 402
Skin corrosion/irritation : rabbit, Result: non-irritant, OECD Test Guideline 404
Serious eye damage/eye Irritation : rabbit, Result: Irritant, OECD Test Guideline 405
Respiratory or skin Sensitization Germ cell mutagenicity : Result: Does not cause skin sensitization.

Genotoxicity in vitro : Result: negative, OECD Test Guideline 471
STOT - repeated exposure : Rat, Oral, Exposure time: 28 d, NOAEL: > 1.500 mg/k.

STOT - repeated exposure : Rat, Oral, Exposure time: 52 w, NOAEL: = 256 mg/kg, OECD Test Guideline 453.

STOT - repeated exposure : Rat, by inhalation, Exposure time: 2 w, NOAEL: >= 185 mg/kg, Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

Disodium tetraborate pentahydrate
Serious eye damage/eye irritation : Rabbit, Result: Moderate eye irritation. Classification: Irritant.



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SECTION 12 - ECOLOGICAL INFORMATION

Ammonium Nitrate

Toxicity to fish:	LC50: > 100 mg/l, 96 h, Fish
Toxicity to daphnia and other aquatic invertebrates:	EC50: 490 mg/l LC50: 490 mg/l
Toxicity to algae:	EC50: 1.700 mg/l, <i>Selenastrum capricornutum</i> (green algae)

Disodium tetraborate pentahydrate

Toxicity to fish:	LC50: 74 mg/l, 96 h, dab
Toxicity to daphnia and other aquatic invertebrates:	EC50: 242 mg/l, 24 h, Daphnia magna (Water flea)
Toxicity to algae:	EC10: 24 mg/l, 96 h, green algae

Biodegradability:

no data available

Ammonium Nitrate

Biodegradability :	The methods for determining the biological degradability are not applicable to inorganic substance Bioaccumulation is unlikely.
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Bioaccumulation:

Ammonium Nitrate

Bioaccumulation:	Bioaccumulation is unlikely.
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Mobility in soil:

Groundwater contamination is unlikely.

Distribution among environmental compartments:

No data available

Assessment:

No data available.

Additional ecological Information:

There is a high probability that the product is acute not harmful to aquatic organisms. Additional ecological information, The product has not been tested. The information is derived from the properties of the individual components. At higher pH values, which can be found in natural surface waters, an increase of toxic effects on aquatic organisms may be expected.



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SECTION 13 - DISPOSAL CONSIDERATIONS

Product : Check if agriculture use is possible.
Contact manufacturer.

Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14 - TRANSPORT INFORMATION

Land transport**ADR**

Remarks : Not a dangerous substance as defined in the above regulations.

Sea transport**ADNR**

Class : 9
Packaging group : III
UN number : 2071
Description of the goods : AMMONIUM NITRATE BASED FERTILIZER

IMDG

Class : 9
Packaging group : III
UN number : 2071
EmS : F-H-S-Q
Marine pollutant : No
Description of the goods : AMMONIUM NITRATE BASED FERTILIZER

Air transport**IATA-DGR**

Class : 9
Packaging group : III
Description of the goods : AMMONIUM NITRATE BASED FERTILIZER

Special precautions for user**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**



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SECTION 15 - REGULATORY INFORMATION

A Chemical Safety Assessment is not required for this product

SECTION 16 - OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R8	Contact with combustible material may cause fire
R36	Irritating to eyes
R60	May impair fertility
R61	May cause harm to the unborn child

Full text of H-phrases referred to under sections 2 and 3

H272	May intensify fire; oxidizer
H319	Causes serious eye irritation
H360FD	May damage fertility. May damage the unborn child.

This information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and it not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

-End of SDS-