

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 13.08.2015

Version: 1. 0

Revision: 13.08.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** **ENTEC 20+8+10 (+2MgO+3S) + 0,3B**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.
- **Application of the substance / the preparation:** Fertiliser
- **Uses advised against -**
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier/Manufacturer:**
Eurochem Agro Hellas SA
Mesogion Str. 249
154 51 Neo Psychiko
Tel.: +30 211 17 69 170
Fax. : +30 211 17 69 152
E-mail: info@eurochemagro.gr
- **Email competent person:** sds@kft.de
- **Information department:** See supplier/manufacturer
- **1.4 Emergency telephone number:**
Notruf: National Poisoning Center: +30 210 7793777
Τηλ. Κέντρου Δηλητηριάσεων: +30 210 7793777

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.
- **Classification system:**
The classification was made according to the latest editions of the EC-lists and expanded using company data and specialized literature.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**
Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

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· Dangerous components:

CAS: 6484-52-2	ammonium nitrate	10-70%
EINECS: 229-347-8	Ox. Sol. 3, H272; Eye Irrit. 2, H319	
Reg.nr.: 01-2119490981-27-xxxx		
CAS: 12125-02-9	ammonium chloride	1-25%
EINECS: 235-186-4	Acute Tox. 4, H302; Eye Irrit. 2, H319	
Index number: 017-014-00-8		
Reg.nr.: 01-2119489385-24-xxxx		
CAS: 12179-04-3	disodium tetraborate pentahydrate	< 1%
EINECS: 215-540-4	Repr. 1B, H360FD; Eye Irrit. 2, H319	
Index number: 005-011-02-9		

· SVHC

12179-04-3 disodium tetraborate pentahydrate

· Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **General information:** If symptoms persist or in case of doubt, seek medical advice.
- **After inhalation:** If dust is inhaled, supply fresh air; consult a doctor in case of complaints.
- **After skin contact:** Wash with water and soap.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
 Drink plenty of water, but never give anything to an unconscious person.
 Do not induce vomiting.
 In case of unintentional swallowing of larger quantities or if any symptoms occur seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
· Suitable extinguishing agents:

Water

The product is not combustible and does not support any combustion.

Use fire fighting measures suiting the environment.

Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents:

Sand

Foam

Extinguishing powder

Carbon dioxide

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Ammonia

Chlorine

Hydrogen chloride (HCl)

Phosphorus compounds

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Persons who have inhaled fire effluents require medical observation for at least 48 hours. Symptoms of poisoning may even occur several hours after the accident.

· 5.3 Advice for firefighters**· Protective equipment:**

Wear a fully protective suit.

Do not inhale combustion vapours.

Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid formation of dust.

Wear protective clothing.

· 6.2 Environmental precautions: The following information refer to the leakage of large quantities:**· 6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Pick up mechanically.

Avoid any dust formation. Pick up with a tested and approved industrial vacuum cleaner if necessary.

Make sure to recycle or dispose of in suitable receptacles.

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Any deposit of dust which cannot be avoided must be regularly removed.

· Information about protection against explosions and fires:

Protect from heat.

Observe the general rules of industrial fire protection.

· 7.2 Conditions for safe storage, including any incompatibilities**· Storage:****· Requirements to be met by storerooms and receptacles:**

Store container tightly sealed at a cool and dry place with sufficient ventilation.

· Information about storage in one common storage facility:

Follow local requirements for the storage in one common storage facility of ammonium nitrate.

In case of bulk storage, do not mix with other fertilizers.

Store away from organic materials

· Further information about storage conditions:

(Product is hygroscopic, clumping together or decomposition possible).

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

· Storage class: 5.1C: Ammonium nitrate and preparations containing ammonium nitrate**· 7.3 Specific end use(s)** No further relevant information available

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SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- 12125-02-9 ammonium chloride**
- WEL (Great Britain) Short-term value: 20 mg/m³
- Long-term value: 10 mg/m³
- **Additional information:** The lists that were valid during the creation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
- Keep away from foodstuffs, beverages and feed.
- Do not eat or drink while working.
- Remove all soiled and contaminated clothing immediately.
- Wash hands before breaks and at the end of work.
- Use skin protection cream for skin protection.
- **Breathing equipment:**
- In case of unintentional release of substance, exceeding the occupational exposure limit value:
- Short term filter device:
- NO-P3 (colour code: blue-white) Only single use!
- **Protection of hands:**
- After use of gloves apply skin-cleaning agents and skin cosmetics.
- The glove material has to be impermeable and resistant to the product/substance/preparation.
- Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture.
- Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves:**
- The selection of suitable gloves depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
- The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles
- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information:**
- **Appearance:**
- Form:** Granulate
- Colour:** Different according to colouring
- **Odour:** Nearly odourless
- **Odour threshold:** Not determined
- **pH-value:** Not applicable
- **Change in condition:**
- Melting point/Melting range:** Not determined
- Boiling point/Boiling range:** Not determined

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· Flash point:	Not applicable
· Flammability (solid, gaseous):	Not applicable
· Ignition temperature:	
Decomposition temperature:	>130 °C
· Self ignition temperature:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined
Upper:	Not determined
· Oxidizing properties:	None
· Vapour pressure:	Not determined
· Density:	Not determined
· Relative density:	Not determined
· Vapour density:	Not determined
· Evaporation rate:	Not determined
· Solubility in / Miscibility with Water:	Largely soluble
· Partition coefficient (n-octanol/water):	Not determined
· Viscosity:	
dynamic:	Not applicable
kinematic:	Not applicable
· 9.2 Other information	No further relevant information available

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications
- **10.3 Possibility of hazardous reactions**
Reacts with alkalis forming ammonia.
The formation of gaseous decomposition products occur in tightly closed containers pressure.
- **10.4 Conditions to avoid**
Strong heating
Temperatures > 130 °C
- **10.5 Incompatible materials:**
Combustible substances
Oxidants
Acids
Alkalis
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products if instructions for storage and handling are followed

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values that are relevant for classification:**
ATE oral: >2000 mg/kg
- **12125-02-9 ammonium chloride**
Oral LD₅₀ 1650 mg/kg (rat)
- **Primary irritant effect:**
- **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 sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
The product itself has not been tested. The statements have been deduced from products of similar structure or composition.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **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** No classification
- **STOT-repeated exposure** No classification
- **Aspiration hazard** Not relevant

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available
- **12.2 Persistence and degradability** Not applicable for inorganic substances.
- **12.3 Bioaccumulative potential** No further relevant information available
- **12.4 Mobility in soil** No further relevant information available
- **Ecotoxicological effects:**
- **Other information:**
Large quantities of nitrates reaching lakes and water courses can cause over-fertilization (eutrofication).
If appropriately low concentrations are discharged into biological treatment plants, no inhibition of the degradation activity of the activated sludge is to be expected.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Danger to drinking water is possible if large quantities leak into the ground or into water course.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Other adverse effects** No further relevant information available

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Product is used as a fertilizer. Check the possibility for agricultural use before landfilling.

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Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.

· European waste catalogue:

02 00 00 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING

02 01 00 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing

02 01 08* agrochemical waste containing dangerous substances

· Uncleaned packagings:

· Recommendation: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· Transport/Additional information:	Not dangerous according to the above regulations
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I ammonium nitrate

· National regulations

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water

· **Other regulations, limitations and prohibitive regulations:**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child. Route of exposure: Oral.

· **Department issuing MSDS:**

KFT Chemieservice GmbH

Im Leuschnerpark. 3 64347 Griesheim

Postfach 1451 64345 Griesheim

Germany

Phone: +49 6155 86829-0

Fax: +49 6155 86829-25

Safety Data Sheet Service: +49 6155 86829-22

· **Contact:** Barbara Stark

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Ox. Sol. 3: Oxidising Solids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Repr. 1B: Reproductive toxicity, Hazard Category 1B

· **Sources:**

ASSESSMENT OF AMMONIUM NITRATE BASED FERTILIZERS AS EYE IRRITANT FOR CLASSIFICATION PURPOSES

Report prepared by Fertilizers Europe/July 2011

MSDS of the supplier