


LUVENA
**SAFETY DATA SHEET
MINERAL FERTILIZERS**
SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Product name:

Polish name	English name
NAWÓZ EKOLOGICZNY 0-8-18	ECOLOGICAL FERTILISER 0-8-18
SÓL POTASOWA GRANULOWANA	GRANULAR POTASSIUM CHLORIDE
SIARCZAN AMONU	SULPHATE OF AMMONIA
LUBOPLON KALIUM	LUBOPLON KALIUM
LUBOPLON 21	LUBOPLON 21

Mineral fertilizers contains the following substances which are not hazardous of the the health and of the environment : phosphates, rock phosphate, ammonium sulfates, potassium soils and others

1.2. Relevant identified uses of the substance or mixture and uses advised against

Sector: Agriculture

Identified use: fertilizer formulation - preparation of fertilizer mixtures, professional use of fertilizers, consumer use of fertilizers

Use advised against: None

1.3. Details of the supplier of the safety data sheet

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e-mail of the person responsible for preparation of this safety sheet danuta.rybarczyk@luvena.pl

1.4. Emergency telephone number

Emergency telephone number: 112

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture

The mixture is not classified as hazardous

2.2. Label elements
Pictogram: none

Signal word: none

Identifier: none

Hazard statements: none

Precautionary statements:

Do not breathe dust .Wear protective gloves and protective clothing

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

2.3. Other risks

Mixtures of inorganic compounds, therefore it is not assessed as PBT and vPvB.

The ingredients are not endocrine disrupting substances.

SECTION 3: Composition / information on components
3.1. Substances

Not applicable - mixture safety data sheet

3.2. Mixtures

Mineral fertilizers are mixtures containing the following substances which are not hazardous of the the health and of the environment : phosphates, rock phosphate, ammonium sulfates, potassium soils and others

SECTION 4: First aid measures

4.1. Description of first aid measures**4.1.1. Inhalation.**

If undesirable symptoms occur (e.g. dizziness, sleepiness and irritation of respiratory system) take the injured person out of the contaminated environment to fresh air,

If the person does not breathe, apply artificial respiration and in case of breathing difficulties, supply oxygen and consult a physician. Immediately consult a physician in case of intensive inhalation of the dust.

4.1.2. Skin contact Wash the contaminated skin with copious amount of water with soap for at least 15 minutes, removing thoroughly the contaminated clothes and shoes. Consult a physician in case the irritation lasts.

4.1.3. Eye contact

Immediately rinse eyes with copious amount of running water for at least 15 minutes, lifting the upper and lower eyelid from time to time. Remove contact lenses, if any, and are easy to remove. Continue rinsing. Immediately consult POISONING TREATMENT CENTER or a physician

4.1.4 Digestion

If the injured person feels unwell, consult a physician. Wash the mouth out with copious amount of water and give plenty of water to drink. Do not induce vomiting. Do not administer anything orally, if the injured person is unconscious. If the symptoms do not abate, provide medical assistance.

4.2. Most important symptoms and effects, both acute and delayed

Severe effect: not known

Long-term effect: not known

4.3. Indications of any immediate medical attention and special treatment needed

Inhalation of gases produced during fire and thermal decomposition, may have irritating effect on respiratory system.

SECTION 5: Fire-fighting measures**5.1. Extinguishing media**

Fire in the environment should be extinguished with the use of extinguishing measures as appropriate for the burning materials.

5.2. Special hazards arising from the substance or mixture

During fire there may be produced hazardous gases or vapours: phosphorus and sulphur oxides

5.3. Advice for firefighters

No special measures necessary. In case of fire wear personal breathing apparatus and protective clothing. Avoid inhalation of vapours, stand on the leeward side. Ensure maximum ventilation - open windows and doors.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Avoid dust formation conditions and prevent wind dispersal. Provide adequate ventilation. Avoid contact with eyes, skin and clothing.

Wear appropriate personal protective equipment - protective clothing, protective gloves.

For emergency responders:

Wear appropriate personal protective equipment - protective clothing, protective gloves.

6.2. Environmental precautions

Avoid contamination of water, water intakes or sewers. In case of accidental pollution, notify appropriate authorities.

6.3. Methods and materials for containment and cleaning up

Collect spill up dry.

6.4. Reference to other sections

Personal protective measures - see section 8

Handling of waste - see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid direct contact with the substance. Avoid excessive generation of dust. Wash yourself thoroughly after work.

7.2. Conditions for safe storage, including any incompatibilities

This fertilizer should be stored in unit packages or in bulk, provided it is secured against direct exposure to atmospheric conditions.

Fertilizer in bulk may be stored in heaps formed on hardened, impermeable ground, after prior covering with water tight material or in roofed, permeable to air facilities.

7.3. Specific end use(s)

At present there are no recommended rules of behaviour resulting from special final uses of the product.

SECTION 8: Exposure control / personal protection

8.1. Control parameters

Acceptable exposure limits:

Total dust TLV 10 mg/m³

Methods of exposure assessment:

PN-Z-04008-7:2002 PN-Z-04008-7:2002/AZ1:2004 Sampling: dust and chemical air pollution. Dosimetric and stationary method

PN-91/Z-04030.05 Concentration of total dust Range: (0.15 - 25.0) mg/m³ Filtration and weighing method

PN-91/Z-04030.06 Concentration of respirable dust Range: (0.15 - 16.6) mg/m³ Filtration and weighing method

Biological limit values (DSB):none

Derived No-Effect Levels DNEL :-

PNEC (Predicted No Effect Concentration):-

8.2. Exposure control

8.2.1 Appropriate engineering controls

Avoid excessive dust raising. Wash hands and face after working with the substance. Do not eat or drink during work.

8.2.2 Individual protection measures, such as personal protective equipment

Respiratory protection: In case of insufficient ventilation and excessive dust, use respiratory protection (dust mask or respirator with appropriate filters, e.g. EN 143, 149, Filter P2, P3)

Eye or face protection: not required

Skin protection:). Wear protective gloves (e.g. plastic, rubber, leather) in case of prolonged contact with the product.

Protection against thermal hazards: not required

8.2.3 Environmental exposure controls

No special recommendations

SECTION 9 : Physical and chemical proprieties

9.1. Information on basic physical and chemical proprieties

Physical state	Solid body in the form of pellets
Colour	Grey-brown
Odour	No odour
Melting / freezing point	No data
Boiling point or initial boiling point and boiling range	No data
Flammability	Non-flammable mixture (on the basis of the composition and components)
Lower and upper explosion limit	Do not apply to solids
Flash point	Do not apply to solids
Auto-ignition temperature	Do not apply to solids
Decomposition temperature	Do not apply
pH	No data
Kinematic viscosity	Do not apply
Solubility	partially soluble in water, may create water slurries
Partition coefficient n-octanol/water (log value)	Not applicable, mixture of inorganic compounds
Vapour pressure	
Density and/or relative density	900-1100 kg/m ³
Relative vapour density	Do not apply to solids
Particle characteristics	Granules. There is no data on the particle size of the dusty material.

9.2. Other information

9.2.1 Information with regard to physical hazard classes :

The product is not considered to be explosive, has no oxidizing properties and does not contain organic peroxides. It is not self-reactive

or self-heating, and is not self-igniting. The product is not classified as corrosive to metals. The product is not flammable. Risks related to the physico-chemical properties of the product are not expected

9.2.2 Other safety characteristics: none

SECTION 10: Stability and reactivity

10.1. Reactivity

Product stable under recommended storage and handling conditions (see Section 7).

10.2. Chemical stability

Product stable under recommended storage and handling conditions (see Section 7).

10.3. Possible dangerous reactions

Dangerous reactions may occur during heating - decomposition products, see item 10.6

10.4. Conditions to avoid

Heating, contact with alkalis

10.5. Incompatible materials

Alkalies, ammonium nitrate

10.6. Hazardous decomposition products

Under normal storage and handling conditions no hazardous decomposition products should be produced. Production of poisonous gasses is possible during heating or in case of fire: e.g. phosphorous oxides (e.g. P_2O_5), sulphur oxides (SOx), chloride, fluoride, hydrogen chloride

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

The mixture was not tested.

Acute toxicity :

ATE mix oral > 2000 mg/kg

ATE mix skin > 2000 mg/kg

ATE mix inhalation > 5 mg/l

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

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

Toxicological data of the ingredients:-

Information on likely routes of exposure

Inhalation: probable similar exposure to dust

Skin: likely exposure

Ingestion: no exposure

Symptoms related to the physical, chemical and toxicological characteristics

No detailed data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Health effects of short-term exposure: May cause slight eye irritation if it gets into the eye. There are no known symptoms of inhalation poisoning. Not harmful if swallowed

Health effects long-term exposure: Long-term contact with the preparation may cause slight skin irritation.

Interactive effects not known

Absence of specific data- substances: not known

11.2. Information on other hazard

11.2.1. Endocrine disrupting properties: no properties

11.2.2. Other information- no known

SECTION 12: Ecological information**12.1. Toxicity**

No data concerning acute toxicity.

12.2. Persistence and degradability

Nitrogen undergoes natural nitrification or denitrification cycle, producing nitrogen or nitrogen oxides.

Phosphates are transformed into calcium, iron and aluminium phosphates, or combine with the organic matter of the soil. Potassium is absorbed by clay soils or exists in ionic form in soil solutions.

Product should not be released to sewage in large quantities, as it may cause eutrophication of closed water regions.

12.3. Bioaccumulation potential

Due to the properties of inorganic compounds - the potential is low

12.4. Mobility in soil

Good solubility in water. Ammonium ion is absorbed by soil particles. Phosphates are transported in the soil for a short time and then are immobilized in the soil. Potassium ion is absorbed by clay soils. In soils light potassium may be washed out.

12.5. Results of PBT and vPvB assessment

Mixtures of inorganic compounds, therefore it is not assessed as PBT and vPvB.

12.6. Endocrine disrupting properties

The ingredients do not have endocrine-disrupting properties

12.7. Other adverse effects

none

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

According to local and national regulations the waste is disposed by deposition or combustion. Prevent the substances from penetration to watercourses. Biodegradation control is possible under the process of waste water treatment.

Wastes and used packagings should be delivered to a company dealing with waste management.

Waste code number: 16 03 03 Inorganic wastes containing hazardous substances

Package waste code: 15 01 02 Plastic packages.

SECTION 14: Transport information

May be transported with the use of any means of transportation provided that the product is protected against weather conditions and goods displacement.

14.1. UN number or ID number

It is not classified as hazardous product according to ADR/RID regulations

14.2. UN proper shipping name

It is not classified as hazardous product according to ADR/RID regulations

14.3. Transport hazards class(es)

It is not classified as hazardous product according to ADR/RID regulations

14.4. Packaging group

It is not classified as hazardous product according to ADR/RID regulations

14.5. Environmental hazards

Not labelled as dangerous for the environment

14.6. Special precautions for user

None

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EC REACH Regulations

Official Journal of the EU 2007 L 136, corrigendum to Official Journal of the EU 2006 L 396 + corrigenda (Official Journal of the EU L 36 of 5.2.2009)+ Official Journal of the European Union L 118 of 12.5.2010 as amended

Corrigendum to the Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

EC Regulations - CLP

Official Journal of the European Union 2008 L 353 as amended

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

EC Regulations – export import

Official Journal of the EU 2012 L 201

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Other

Classification of dangerous goods according to ADR Agreement and RID Regulations

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture.

SECTION 16: Other information

MSDS prepared in the format of the card Commission Regulation (EU) 2020/878.

Training: Employees should be instructed within the scope of proper handling of the preparation. One should read the safety data sheet before use of the preparation.

Limitations of use: none.

Data sources: Legal regulations listed under item 15.1, Chemical Safety Report for superphosphate, supplier's sheet, IUCLID database

Changes :

- updated card format
- update of emergency numbers
- data update
- update of legal regulations

Classification:

Mixture classification according to CLP was made with the use of classification criteria for each exposure class contained in parts 2–5 of the appendix I of the CLP Regulation and mixture classification criteria contained in parts 3-4 of the appendix I of the CLP Regulation (assessment method: Mixtures classification, in case there is data available for all components or only for some of the components)

Classifications according to 67/548/EEC Directive was made according to calculation method

All data contained herein are consistent with the present knowledge and our experience. Safety data sheet is a description of products as regards safety requirements. It is not the intention of our data to ensure product's properties.