

1 PRODUCT IDENTIFICATION, PURPOSE OF USE, AND MANUFACTURER

1.1 Product identifier

Commercial name Fertilex 4-1-2, elements (Fertilex 4-3-2, oksids)

1.2 Purpose of use

Tukes use category 19 Fertilisers

Purpose of use Fertiliser

Industrial category 2015 Manufacture of fertilisers and nitrogen compounds

1.3 Product manufacturer

Fertilex Oy

Torikantie 85

23800 Laitila, Finland

info@fertilex.fi

+358 40 660 2995

1.4 Emergency telephone number

Tel. 112

Description National and EU emergency phone number, available 24/7

Tel. +358 800 147 111 or +358 9 471 977

Description Poison Information Centre, PO Box 790 (Tukholmankatu 17), 00029 HUS, Finland; available 24/7

2 HAZARD IDENTIFICATION

2.1 Substance classification according to Regulation (EC) No 1272/2008

No classification.

2.2 Hazard labels according to Regulation (EC) No 1272/2008

No labels.

2.3 Other hazards posed by the product

No known hazards. The product contains no persistent, bioaccumulative, or toxic (PBT) substances.

2.4 Potential health effects

Exposure to large amounts of dust may irritate the eyes, skin, and respiratory organs. The product releases dust when handled as bulk.

2.5 Other hazards

No known hazards.

3 RAW MATERIAL PROPERTIES

3.1 Raw materials

Poultry manure from laying hens.

3.2 Type and description of the finished product

Pelletised manure from laying hens, N-P-K 4-1-2, (N - P₂O₅ - K₂O 4-3-2)

3.3 Hazardous raw materials

This fertiliser product contains no ingredients classified as hazardous materials.

Raw material Poultry manure

CLP class No classification

Notes regarding ingredients: This product contains no ingredients classified as hazardous to human health or the environment.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General instructions	<p>If first aid is required in connection with using the product, bring the safety data sheet, product specification sheet, or packaging with you.</p> <p>If you experience symptoms after using the product, seek medical assistance.</p>
Respiratory symptoms	<p>Move the person who is suffering symptoms to a dust-free location with fresh air.</p> <p>Keep the person calm and warm.</p>
Skin symptoms	<p>Wash the skin with soap and plenty of water.</p>
Eye exposure	<p>Was the eyes with plenty of water for several minutes. If symptoms persist, seek medical assistance.</p>
Ingestion	<p>Rinse the mouth and drink plenty of clean water. If symptoms occur later, seek medical assistance.</p>

No immediate hazards have been reported in relation to using the product, and no special protection is required to use the product.

No special data about the product's hazards is available.

4.2 Primary symptoms, both immediate and delayed

Immediate symptoms	<p>Dust released by the product may irritate the eyes and respiratory organs.</p>
Delayed symptoms	<p>No delayed symptoms related to the use of the product are known to exist.</p>

4.3 Treatment of symptoms requiring immediate care

Other care instructions Begin treatment immediately according to symptoms.

5 FIRE PROTECTION MEASURES

5.1 Fire extinguishing equipment

Choose the fire protection method according to the environment.

5.2 Special hazards arising from the burning of the product

The product releases carbon monoxide and nitrogen oxides during burning. The combustion gases may be detrimental to human health.

5.3 Firefighting instructions

Wear a fully protected suit and use a pressurised respirator.

5.4 Additional instructions

Collect any firefighting water or prevent it from draining into the environment to allow later processing.

6 EMERGENCY INSTRUCTIONS

6.1 General instructions

Avoid the release of dust.

Ensure sufficient ventilation.

6.2 Protection of people

Use appropriate personal protective equipment.

6.3 Protection of the environment

No special measures are required. If firefighting water is used, avoid its release into the environment.

7 HANDLING AND STORAGE

7.1 Safe handling of the product

Prevent the release of dust and dust inhalation. Prevent the dust from contacting the eyes and skin. Wash your hands after handling the product and maintain good hygiene in general.

7.2 Safe storage of the product

Always store the product in its original packaging. Store the product packages in a dry place away from feed and foodstuffs. Store in closed bags and out of reach of children.

7.3 Using the product after storage

Use the product as fertiliser according to the instructions of the product specification sheet.

8 EXPOSURE CONTROL AND PERSONAL PROTECTIVE EQUIPMENT

8.1 Control parameters

HTP value (8 h) 10 mg/m³

8.1.1 Momentary exposure

No limit value has been determined for exposure to the product. Ensure sufficient ventilation in all spaces where the product is handled.

8.1.2 DNEL/PNEC values

No DNEL values are available for consumers or workers.

PNEC values are also not available.

8.2 Exposure controls

8.2.1 Only work in well-ventilated spaces

No specific ventilation regulations apply to the handling of the product. Avoid the dust released by the product or use local extraction if the dust is unavoidable.

8.2.2 Personal protection

Eye protection

If required, use safety goggles appropriate for the local conditions. Protect yourself from the dust especially.

Skin protection

Use appropriate protective clothing.

Hand protection

Use protective gloves that keep the dust off the skin.

Respiratory protection

Only handle the product in well-ventilated spaces. If excessive dust is released, use appropriate respiratory protective equipment.

8.2.3 Environmental exposure controls

Never release the product into drains, sewers, surface waters, or the soil. Only use the product as fertiliser in accordance with the product specification sheet.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form and appearance	Dark brown or grey pellets
Physical state	Hard solid pellets or grains
Colour	Dark brown or grey
Odour	Typical poultry manure smell
Odour threshold	No data

9.2 OTHER PRODUCT INFORMATION

PH	8,0
Density	600–700 g/L
Form	Solid, granular
Odour	Typical poultry manure smell
Odour threshold	No data
Melting point	No data

Boiling point	No data
Flash point	No data
Evaporation rate	No data
Flammability	Non-flammable
Explosion limit	No data
Relative density	No data
Solubility	Solvent: water
Partition coefficient, n-octanol/water	Water-soluble
Self-ignition	Not self-igniting
Decomposition temperature	No data
Explosiveness	Not classified as explosive
Oxidation	Not classified as oxidising

10 STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal storage, handling, and use conditions.

10.2 Chemical stability

Stable under normal storage, handling, and use conditions.

10.3 Potential for hazardous reactions

No hazardous reactions occur under normal storage, handling, and use conditions.

10.4 Conditions to avoid

Avoid high temperatures.

10.5 Incompatible materials

Acids and oxidisers.

10.6 Hazardous decomposition products

Hazardous substances such as carbon monoxide, carbon dioxide, and nitrogen oxides may be released if the product is burned or heated.

11 TOXICOLOGICAL INFORMATION

11.1 Product toxicity and harmful effects

11.1.1 Acute toxicity

Pelletised poultry manure is not toxic.

11.1.2 Skin irritation/symptoms

This product is not classified as a skin irritant.

11.1.3 Eye irritation and damage

This product is not classified as harmful to the eyes.

11.1.4 Irritating properties

This product is not classified as a sensitising agent for the skin or respiratory system.

11.1.5 Carcinogenicity and genetic effects

This product is not classified as carcinogenic or a risk to genetic health.

11.1.6 Reproductive health effects

This product has not been found to affect reproductive health.

11.1.7 Practical experience

This product has not been shown to cause cancer or genetic effects, nor has it been found to be otherwise toxic.

11.1.8 Aspiration hazards

This product has not been found to be hazardous if aspirated.

12 ENVIRONMENTAL HAZARDS

12.1 Ecotoxicity and environmental effects

This product is not classified as environmentally hazardous.

12.2 Persistence and decomposition

Biodegradable. The product is not classified, however.

12.3 Harmful ecological accumulation

No bioaccumulation.

12.4 Mobility in soil

No data available.

12.5 PBT and vPvB assessment

This product contains no persistent, bioaccumulative, or toxic (PBT) substances.

12.6 Other harmful effects

No environmental data is available for the product. This product is not classified as environmentally hazardous.

13 PROCESSING OF GENERATED WASTE

13.1 Processing of excess material

This product is a fertiliser. Any leftover product should be used as agricultural fertiliser or soil conditioner. If the product cannot be used as fertiliser, refer to your local authorities.

13.2 Waste code

This product has no waste code.

13.3 Packaging materials

Empty the packaging completely and thoroughly. Once empty, the packaging may be disposed of as energy waste.

14 PRODUCT TRANSPORT INFORMATION

14.1 UN number

This product has no transport classification.

14.2 Official name of product for transport

Fertilex 4-1-2, elements (Fertilex 4-3-2, oksids)

14.3 Transport hazard class

This product is not classified as environmentally hazardous.

14.4 Transporting as bulk cargo

Apply MARPOL Annex II and the IBC Code.

15 REGULATIONS CONCERNING THE PRODUCT

15.1 This product is subject to all regulations regarding fertilisers.

According to current legislation, the product may only be used as fertiliser. See Regulation (EC) 2003/2003 and the Finnish Fertiliser Product Act (539/2006).

16 OTHER INFORMATION

Please review the safety data sheet and the product specification sheet before use.

Author of the statement: Suomen Ekosovellus Oy, Fertilex Oy.

Note:

This safety data sheet is based on those public information sources available at the time of publishing, including current legislation and the product information provided by Fertilex Oy.

Fertilex Oy is responsible for the correctness and up-to-dateness of the information it has provided.

Before using the product, review the product specification and the safety data sheets.

This product is subject to regulations regarding the use of organic fertilisers.