

Safety data sheet according to Regulation (EC) No 1907/2006

Trade name: Product from natural plant granulate
Created on: 01.08.2023 Version: **1640-0** Replaces: NEW
Revised on: NEW Page: 1 / 7



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

1.1 Product identifier

Substance name/ Trade name: **eseco**

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

Relevant identified uses: Separating and test dust

Uses advised against: -

1.3 Details of the supplier providing the safety data sheet

Manufacturer/Supplier: KSL staubtechnik gmbh
Street/PO Box: Westendstrasse 11
Nat.-Kenn./ PLZ/ Ort: DE - 89415 Lauingen
Phone/ Fax/ E-mail: +49 (0) 9072 / 95 00-0 / Fax: -50 / info@ksl-staubtechnik.de

1.4 Emergency number

+49 (0) 9072 / 95 00-0 (availability: Mon-Thu 08:00-16:00, Fri 08:00-12:00)

SECTION 2: Potential hazards

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008

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

2.2 Labelling elements

2.2.1 Labelling elements according to Regulation (EC) No 1272/2008

Not subject to labelling according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This material is not easily flammable, but combustible and can therefore form an explosive dust-air mixture when dispersed (dust explosion hazard).

No health hazards are known or expected when handled as intended.

SECTION 3: Composition/information on ingredients

3.1 Substances

Description of the substance: 100 % natural plant granulate

Hazardous ingredients: none

Name	CAS no.	EC no.	Concentration range [wt.%]	Classification according to VO (EC) No. 1272/2008
Natural plant granules	8001-25-0	-	> 99 %	not applicable

3.2 Mixtures

This product is a fabric.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

If symptoms persist, consult a doctor. Substance/product and measures carried out to the Specify doctor.

After inhalation:

Get some fresh air.

After skin contact:

Not relevant.

After eye contact:

Rinse with plenty of water when the eyelid is open. If symptoms persist, consult a doctor.

After ingestion:

Rinse mouth with plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Dust may cause irritation of the eyes and respiratory tract (due to exposure to foreign bodies).

Safety data sheet according to Regulation (EC) No 1907/2006

Trade name: Product from natural plant granulate

Created on: 01.08.2023

Version: 1640-0

Replaces: NEW

Revised on: NEW

Page: 2 / 7



4.3 Indications for immediate medical help or special treatment

Treat according to the symptoms.

SECTION 5: Fire-fighting measures

5.1 Extinguishing agent

Suitable:

Water spray, alcohol-resistant foam, carbon dioxide, dry chemical.

Unsuitable:

Full water jet: Danger of dust cloud mixing.

5.2 Special hazards arising from the substance or mixture

In case of fire and excessive heat, dangerous decomposition products may develop (carbon monoxide, carbon dioxide). Dust can form explosive mixtures in the air.

5.3 Advice for firefighting

Use self-contained breathing apparatus.

5.4 Additional notes

Take measures against electrostatic charging. Avoid dust formation. Fire class A: Fires of solid substances, mainly organic, which normally burn with the formation of embers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 Personnel not trained for emergencies

Wear protective clothing as described in section 8. Follow the instructions for safe handling as described in section 7. Remove sources of ignition, ensure adequate ventilation and avoid dust formation.

6.1.2 Task forces

Emergency plans are not required. However, respiratory protection is required in case of high dust exposure.

6.2 Environmental protection measures

No special environmental protection measures are required.

6.3 Methods and material for retention and cleaning

6.3.1 Notes on retention

Avoid dust formation.

6.3.2 Notes on cleaning

Pick up the mixture mechanically free of dust or vacuum and collect for disposal in designated containers in accordance with local regulations. Use approved industrial hoovers or suction equipment for potentially explosive atmospheres.

6.3.3 Notes on unsuitable retention and cleaning methods

Blowing off for cleaning purposes is not permitted.

6.4 Reference to other sections

For disposal, observe section 13 of the SDS. Personal protective equipment is indicated in section 8 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

7.1.1 Notes on safe handling

Avoid dust formation and deposits. Take measures against electrostatic charging.

Measures to protect against fire and explosions

Take measures against electrostatic charging. Avoid formation of dust. Keep away from sources of ignition.

Measures to prevent aerosol and dust formation

Sweep only with a suitable chip sweeper. For cleaning, use suitable methods that are as dry as possible, such as vacuum suction, which do not cause dust formation.

Measures to protect the environment

No measures required.

7.1.2 Notes on general hygiene measures

Do not eat, drink or smoke while working. Wash hands after use/contact. In dusty atmosphere wear respirator and safety glasses.

7.2 Conditions for safe storage taking into account incompatibilities

Information on storage conditions

Store containers in a dry place. Do not store together with explosive and/or oxidising substances.

Requirements for storage rooms and containers

Store dry and tightly closed, if possible in the original container.

Storage class:

VCI : 11 (combustible solids)

Safety data sheet according to Regulation (EC) No 1907/2006

Trade name: Product from natural plant granulate
Created on: 01.08.2023 Version: **1640-0** Replaces: NEW
Revised on: NEW Page: 3 / 7



7.3 Specific end uses

Industry and sector-specific guidelines

No additional information is available for the specific end uses (see section 1.2).

SECTION 8: Exposure controls/ Personal protective equipment

8.1 Parameters to be monitored

8.1.1 National limit values

Components with limit values that require monitoring at the workplace:

Chem. Identity	CAS no.	EC no.	National Limit value	Exposure type	Comment/ Legal regulation
General Dust limit value	-	-	1.25 (A) mg/m ³ (alveolar)	inhalative	Occupational exposure limit TRGS 900
General Dust limit value	-	-	10 (E) mg/m ³ (inhalable)	inhalative	Occupational exposure limit TRGS 900

8.1.2 International limits

Components with international exposure limits that require monitoring at the workplace:

Chem. Identity	CAS no.	EC no.	International Limit value	Exposure type	Remark/ Legal regulation
Natural plant granules	8001-25-0		see GESTIS database Intern. Limits *	inhalative	Relevant international working limit value

* You can find the GESTIS database for International Limits at the following link: <http://limitvalue.ifa.dguv.de>

8.2 Exposure controls

8.2.1 Suitable technical control devices

In order to comply with the occupational exposure limits, combinations of technical and individual protective measures are often required. Recommended measurement methods for workplace measurements: See the series of publications of the Berufsgenossenschaft. Technical control devices and individual protective measures are recommended for the identified uses (Section 1.2). Ventilate as necessary to control dust in the air. Use explosion-proof ventilation system in case of high dust content in the air.

8.2.2 Individual protective measures, for example personal protective equipment

General

No personal protective equipment is necessary when used as intended. Handle the product in compliance with the safety instructions.

Face/eye protection

In the event of dust formation, wear closed protective goggles in accordance with EN 166.

Skin/hand protection

May be slightly irritating to sensitive skin due to mechanical friction. If necessary, wear protective gloves according to standard EN 374.

Breathing protection

If the exposure limit values are exceeded (e.g. during open handling of powdery product), a suitable respiratory protection mask with particle filter P1 according to standard 143 must be worn.

Hygiene measures

Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work and shower if necessary. Avoid contact with eyes and skin. Clean contaminated clothing, shoes, watches, etc. before reuse.

8.2.3 Limitation and monitoring of environmental exposure

See sections 6 and 7. No further action required.

Safety data sheet according to Regulation (EC) No 1907/2006

Trade name: Product from natural plant granulate

Created on: 01.08.2023

Version: 1640-0

Replaces: NEW

Revised on: NEW

Page: 4 / 7



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a)	State of aggregation	Powder, granules - solid
(b)	colour	light brown
(c)	Odour	neutral
(d)	Melting point/freezing point	not applicable
(e)	Boiling point or initial boiling point and boiling range	Not applicable, since chemical decomposition occurs before Reaching the boiling point is
(f)	Flammability	flammable
(g)	Lower and upper explosion limit	not applicable to solids according to Regulation (EU) 2020/878.
(h)	Flash point	not applicable to gases, aerosols and solids according to Regulation (EU) 2020/878.
(i)	Ignition temperature	Applies only to gases and liquids according to Regulation (EU) 2020/878.
(j)	Decomposition temperature	not determined
(k)	pH value	4.5 - 7.0 (at 20° C)
(l)	Kinematic viscosity	only applies to liquids according to Regulation (EU) 2020/878.
(m)	Solubility	insoluble
(n)	Partition coefficient n-octanol/water (log value)	Not specified
(o)	Vapour pressure	not applicable
(p)	Density and/or specific gravity	approx. 1.5 g/cm ³
(q)	Relative vapour density	only applies to gases and liquids according to Regulation (EU) 2020/878.
(r)	Particle properties	The X ₅₀ value is between 80 µm and 160 µm.

9.2 Other information

Not applicable.

9.2.1 Information on physical hazard classes

Not applicable.

9.2.2 Other safety-related parameters

(a)	mechanical sensitivity	not applicable
(b)	Temperature of self-accelerating polymerisation	not applicable
(c)	Formation of explosive dust-air mixtures	LEL \geq 60 g/m ³ P _{max} < 9.5 bar _ü Ignition temperature > 330° C K _{St} -value < 200 bar · m/s Dust explosion class St 1
(d)	Buffer capacity	not applicable
(e)	Evaporation rate	not applicable
(f)	Miscibility	not applicable
(g)	Conductivity	not applicable
(h)	Corrosivity	not applicable
(i)	Gas group	Not applicable
(j)	Redox potential	not applicable
(k)	Radical formation potential	not applicable
(l)	Photocatalytic properties	not applicable

The product itself was not tested, the statements were derived from products of similar composition.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions are known when stored and handled properly.
Dust explosion hazard with dust-air mixtures.

10.2 Chemical stability

The mixture is stable under normal ambient temperature and pressure.

10.3 Possibility of hazardous reactions

No danger under normal storage conditions

10.4 Conditions to avoid

Moisture and water during storage can lead to lump formation and loss of product quality.
Decomposition occurs at temperatures > 150 °C.

10.5 Incompatible materials

Avoid contact with oxidising agents.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide (when burning).

Safety data sheet according to Regulation (EC) No 1907/2006

Trade name: Product from natural plant granulate

Created on: 01.08.2023

Version: **1640-0**

Replaces: NEW

Revised on: NEW

Page: 5 / 7



SECTION 11: Toxicological information

11.1 Danger class information according to Regulation (EC) No 1272/2008

No toxicological data are available for the product.

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

- a) **Acute toxicity**
No information available / no hazardous substance
- b) **Corrosive/irritant effect on the skin**
No information available / no hazardous substance
- c) **Serious eye damage/irritation**
No information available / no hazardous substance
- d) **Sensitisation of the respiratory tract/ skin**
No information available / no hazardous substance
- e) **Germ cell mutagenicity**
No information available / no hazardous substance
- f) **Carcinogenicity**
No information available / no hazardous substance
- g) **Reproductive toxicity**
No information available / no hazardous substance
- h) **Specific target organ toxicity at single exposure**
No information available / no hazardous substance
- i) **Specific target organ toxicity in case of repeated exposure**
No information available / no hazardous substance
- j) **Aspiration hazard**
No information available / no hazardous substance

Delayed and immediate effects as well as chronic effects after short or long lasting exposure

Immediate effects

Irritation of the eye or respiratory tract due to exposure to foreign bodies is possible.

Chronic effects with prolonged exposure

No information available / no hazardous substance

11.2 Information on other hazards

No endocrine disrupting properties or other adverse effects are known.

SECTION 12: Environmental information

No ecotoxicological data are available for the product.

12.1 Toxicity

Not relevant.

12.2 Persistence and degradability

Non persistent, the product is biodegradable.

12.3 Bioaccumulative potential

Not relevant.

12.4 Mobility in soil

Not relevant.

12.5 Results of the PBT and vPvB assessment

frees

12.6 Endocrine disrupting properties

Not relevant.

12.7 Other adverse effects

Not relevant.

SECTION 13: Notes on disposal

13.1 Waste treatment process

Can be disposed of in accordance with local regulations. Take up product dry.

Recommendation

Agree the exact waste code with the waste disposal company.

Waste code according to the List of Wastes Ordinance (AVV)

010410 - Dusting and powdery wastes

Treatment of cleaned/uncleaned packaging

150106 - mixed packaging according to material recycling

Safety data sheet according to Regulation (EC) No 1907/2006

Trade name: Product from natural plant granulate

Created on: 01.08.2023

Version: **1640-0**

Replaces: NEW

Revised on: NEW

Page: 6 / 7



SECTION 14: Transport information

The product is not a dangerous good in the sense of the transport regulations (ADR, RID, ADN, IMDG, ICAO/IATA).

14.1 UN number or ID number

not applicable

14.2 Proper UN shipping name

not applicable

14.3 Transport hazard classes

not applicable

14.4 Packaging group

not applicable

14.5 Environmental hazards

not applicable

14.6 Special precautions for the user

No special measures

14.7 Bulk transport by sea in accordance with IMO instruments

not applicable

SECTION 15: Legislation

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

The product is not subject to registration under EC Regulation 1907/2006 (REACH).

EU regulations

Not relevant

National regulations

When handling this product, the legal regulations in their current version must be observed, including

AwSV Water hazard class: not hazardous to water
TRGS 500 "Protective measures"
TRGS 720 "Dangerous explosive atmospheres - General information".
TRGS 721 "Dangerous explosive atmospheres - Assessment of the explosion hazard".
TRGS 722 "Avoidance or limitation of hazardous explosive atmospheres".
TRGS 727 "Avoidance of ignition hazards due to electrostatic charges".
TRGS 900 "Occupational exposure limits"
Technical Instructions on Air Quality Control
Ordinance on Occupational Medical Precautions (ArbMedVV)
BG principles for occupational medical check-ups

15.2 Chemical Safety Assessment

No Chemical Safety Assessment is required for this mixture.

SECTION 16: Other information

16.1 Changes compared to the previous version

None. Document newly created.

16.2 Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ArbMedVV	Ordinance on Occupational Medical Precautions
BG	Employer's Liability Insurance Association
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging (Regulation (EC) No 1272/2008)
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization (ICAO)
IMDG	International agreement on the Maritime transport of Dangerous Goods
PBT	Persistent, bio-accumulative and toxic (persistent, bioaccumulative, toxic)
REACH	Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) 1907/2006)
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
MSDS	Safety Data Sheet
TRGS	Technical rules for hazardous substances
VCI	German Chemical Industry Association
vPvB	Very persistent, very bioaccumulative
AwSV	Ordinance on Installations for Handling Substances Hazardous to Water

Safety data sheet according to Regulation (EC) No 1907/2006

Trade name: Product from natural plant granulate

Created on: 01.08.2023

Version: **1640-0**

Replaces: NEW

Revised on: NEW

Page: 7 / 7



16.3 References and data sources

As sources of the most important data and the technical information, we refer to information provided by the raw material suppliers/manufacturers or the ECHA database on the Classification and Labelling Inventory.

16.4 Methods according to Article 9 of Regulation (EC) No 1272/2008 used to evaluate the information for classification purposes

No own assessment of the substance was carried out.

The transfer principles for the classification of mixtures according to Article 6 of Regulation (EC) No 1272/2008 have been applied, Paragraph 5 applied.

The classification of the water hazard class of this substance was carried out according to the AwSV.

16.5 Training for workers

In addition to training programmes for workers on health, safety and the environment, companies must ensure that their workers can read and understand the safety data sheet and implement the requirements.

16.6 Other information

No antibiotics, bactericides or fungicides are used in the manufacture of our products.

16.7 Information on NANO

We do not use nanotechnology processes and no synthetic nano-materials are used for production. However, we cannot exclude the presence of small amounts of nanoparticles in the material. To obtain the desired particle size distribution in our product, the product is crushed and then sieved. It could be that some nanoparticles are produced in such a comminution process. By the way, the same applies to products such as flour or sugar! It is therefore not possible to exclude NANO material.

16.8 Exclusion clause

The information in this safety data sheet describes the safety requirements of our product and is based on our current knowledge. It does not constitute a guarantee of product properties and does not establish a contractual legal relationship. This safety data sheet is intended solely as a source of information for the user. It has been compiled with the greatest care; no guarantee can be given for the correctness of the data or liability accepted for the consequences of printing, typesetting or transmission errors. Existing laws, ordinances and regulations, including those not mentioned in this data sheet, must be observed by the recipient of our products at his own responsibility.

The translation was done with the help of an online tool.