

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

Trade name: eseco B150 Axx

Created on: 31.07.2023

Version: 1638-0

Replaces: NEW

Revised on: NEW

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

1.1 Product identifier

Substance name/ Trade name: **eseco B150 A10, A30, A50**

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

Hazard class: Eye Irrit. 2 - Serious eye damage/eye irritation

Hazard category: 2

Hazard statements: H319 Causes severe eye irritation

2.2 Labelling elements

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



GHS07

Signal word: Warning

Hazards: H319 Causes severe eye irritation.

Safety precautions: P264 Wash thoroughly with plenty of soap and water after use.

P280 Wear eye protection/face protection

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove existing contact lenses if possible. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

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

This product is a mixture.

3.2 Mixtures

Composition/information on ingredients

Description of the mixture:

Release agent based on natural plant granulate

Hazardous ingredients:

Adipic acid

Name	CAS no.	EC no.	Concentration range [wt.%]	Classification according to VO (EC) No. 1272/2008
Natural plant granules	8001-25-0	-	50-90 %	not applicable
Adipic acid	124-04-9	204-673-3	10-50%	- Eye Irrit. 2 - Category 2 - H319

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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 doctor.

After inhalation:

Get some fresh air.

After skin contact:

Wash off with plenty of soap and water. Remove contaminated clothing and shoes. Consult a doctor.

After eye contact:

Rinse the eye for 15 minutes under running water with the eyelids wide apart, protecting the uninjured eye. Remove contact lenses if possible. Continue rinsing. Consult a doctor.

After ingestion:

Rinse mouth with plenty of water. Spit out the liquid. Do not induce vomiting. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Dust may cause irritation to the eyes and respiratory tract.

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

Wear self-contained breathing apparatus and suitable protective clothing.

5.4 Additional notes

Take measures against electrostatic charging. Avoid dust formation.

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

Do not discharge aqueous suspensions directly into water. Do not allow to enter waters, soil or sewage system.

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 it and collect it for disposal in the 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.

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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

Do not allow to enter waters, drains and soil.

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 goggles.

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)

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 occupational exposure limits to be monitored

Chem. Identity	CAS no.	EC no.	International Limit value	Exposure type	Comment/ Legal regulation
Adipic acid	124-04-9	204-673-3	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

Handle the product in compliance with the safety instructions.

Face/eye protection

Wear closed safety goggles according to EN 166.

Skin/hand protection

May be slightly irritating to the skin of sensitive people. 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 P2 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.

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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 the boiling point is reached.
(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	not determined
(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. 1.2 - 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 100 µm and 150 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

None if used as intended.

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SECTION 11: Toxicological information

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

No toxicological data are available for the product.

The data refer to the added adipic acid.

- a) **Acute toxicity**
No information available / no hazardous substance
- b) **Corrosive/irritant effect on the skin**
Slight irritation
- c) **Serious eye damage/irritation**
Danger of serious eye damage
- 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

The plant granulate as the main component has no ecotoxicological properties. The following information refers to the added adipic acid. Adipic acid is acutely harmful to aquatic organisms. However, if low concentrations are properly introduced into biological sewage treatment plants, disturbances of the degradation activity of activated sludge are not to be expected.

12.1 Toxicity

Fish toxicity:

LC0 (96 h) $\geq 1,000$ mg/l, Brachydanio rerio (static)

Nominal values (confirmed by concentration control)

Aquatic invertebrates:

LC50 (48 h) 46 mg/l, Daphnia magna (OECD Guideline 202, Part 1)

Nominal concentration

Water plants:

EC50 (72 h) 59 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

Nominal concentration

Microorganisms/effect on activated sludge:

EC50 (3 h) 7,911 mg/l, activated sludge (OECD Guideline 209, aerobic)

Chronic toxicity fish:

Study not necessary for scientific reasons.

Chronic toxicity aquat. Invertebrates:

NOEC (21 d) 6.3 ng/l, Daphnia magna (OECD Guideline 211)

Nominal concentration

Assessment terrestrial toxicity:

Study not necessary for scientific reasons.

12.2 Persistence and degradability

Non persistent, the product is easily biodegradable.

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

Binding to the solid soil phase is not expected.

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12.5 Results of the PBT and vPvB assessment

The product does not meet the criteria for PBT and vPvB. Self-classification

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. Do not dispose of into waste water or surface water.

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

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: 1 - slightly hazardous to water

TRGS 500 "Protective measures

TRGS 510 "Storage of hazardous substances in portable containers".

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

MuSchG "Maternity Protection Act

JuSchG "Youth Protection Act

Technical Instructions on Air Quality Control

Ordinance on Occupational Medical Precautions (ArbMedVV)

BG principles for occupational medical check-ups

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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 was 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

16.3 References and data sources

As sources of the most important data and 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 assess the information for classification purposes

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 mixture was done 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.

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