

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 PRODUCT IDENTIFIER** AbsorTerra
- 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST** Use as a desiccant
- 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET** Absortech Group
Tryckerivägen 4
311 44 Falkenberg, Sweden
info@absortech.com
Phone: +46 34-64 20 70
This safety data sheet was created by Trossa AB.
For questions, please contact sds@trossa.se.
- 1.4 EMERGENCY TELEPHONE NUMBER** In emergency situations, contact National Poisons Information Service:
In England and Wales: NHS 111 - dial 111. In Scotland: NHS 24 - dial 111.

SECTION 2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE (CLP)

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

2.2 LABEL ELEMENTS

No labelling required according to the Regulation (EC) No 1272/2008.

Other information

Criteria for PBT and vPvB are not applicable for inorganic compounds (montmorillonite, quartz). Based on available information, this mixture contains no substance that meets the PBT or vPvB criteria according to Annex XIII to Regulation (EC) No. 1907/2006 (REACH).

Based on available information, this mixture contains no substance which is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations $\geq 0.1\%$ (w/w).

2.3 OTHER HAZARDS

May form explosible dust-air mixture if dispersed.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 MIXTURES

Substance	EC No.	CAS No.	REACH No.	Conc. w/w %	Classification (CLP)
Montmorillonite ¹	215-288-5	1318-93-0	*	98,24	-
Quartz	238-878-4	14808-60-7	01-2120770509-45	1,16	-

¹Clay mineral

* REACH registration not required.

The product also contains an additive (trade secret).

SECTION 4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation

Fresh air and rest. If symptoms persist, call a physician.

Skin contact

Wash skin with soap and water. If symptoms persist, call a physician.

Eye contact

Rinse with soft jet of water or eye wash for a few minutes. Consult a doctor if symptoms persist.

Ingestion

Rinse mouth and drink water. Do **not** induce vomiting. Consult a doctor if symptoms persist.

Information to medical advice

No specific information.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation: May cause mild/transient irritation of the respiration tract.

Skin Contact: Not expected to produce any acute or delayed symptoms.

Eye Contact: May cause mild/transient irritation.

Ingestion: Small amounts are not expected to give any acute or delayed symptoms. Large amounts may cause nausea and vomiting.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No information

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SECTION 5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media: Use the same extinguishing media as recommended for the surroundings.
Unsuitable extinguishing media: None known.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Not combustible.
In case of fire, toxic and corrosive fumes may develop.

5.3 ADVICE FOR FIREFIGHTERS

Precautions according to the standard procedure for chemical fires. Use breathing apparatus to protect against toxic / corrosive gases and suitable fire-resistant protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid dust formation. Avoid contact with skin and eyes.

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent discharge to drains.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep up and handle in accordance with local regulations.

6.4 REFERENCE TO OTHER SECTIONS

See Section 8 for Exposure controls / personal protection and Section 13 for disposal considerations.

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid inhalation and direct contact with the product. Do not eat, drink and smoke when handling the product. Normal hand hygiene. Avoid dust formation, may form explosible dust-air mixture if dispersed.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a dry place at room temperature. The product is hygroscopic. When the product is removed from its outer packaging, it should be used immediately.

7.3 SPECIFIC END USE

See Section 1.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure limits according to National regulations

Contains no substances with occupational exposure limits in the work environment.

8.2 EXPOSURE CONTROLS

Appropriate technical measures

Methods are designed so that the concentration of dust is kept as low as possible.

There should be a place for eye rinsing at the workplace.

Personal protection

Eye/face protection:	Protective glasses when there is a risk of eye contact.
Skin protection:	At risk of direct contact protective gloves should be used. Recommended glove material: nitrile rubber.
Respiratory protection:	When handling large amounts, respiratory protection may be needed, according to EN 143. Particle filter: P2
Other protection:	Long-sleeved coat / overalls and full-coverage shoes.
Thermal hazard:	Not relevant.

8.3 ENVIRONMENTAL EXPOSURE CONTROLS

Prevent release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Product description

Physical state:	Granules
Colour:	Grey
Odour:	Odourless
Melting-point / freezing-point:	No data
Boiling point or initial boiling point and boiling range:	No data
Lower and upper explosion limit:	Not applicable

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Flashpoint:	Not relevant
Auto-ignition temperature:	Not relevant
Decomposition temperature:	No data
pH:	No data
Kinematic viscosity:	Not relevant (solid)
Solubility:	No data
Partition coefficient, n-octanol/water:	Not applicable
Vapour pressure:	Not relevant
Density:	900 – 1000 g/L
Relative vapour density:	Not relevant
Particle characteristics:	Grain diameter 1.0-4.0 / 0.5-1.5 mm

9.2 OTHER INFORMATION

Adsorption capacity: ≥ 5.7 g at 25°C, RH = 40%

Water content: $\leq 1.0\%$ at 170 °C

9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

Explosive properties: Not explosive.

Oxidising properties: Not oxidising.

Flammability: Not flammable.

9.2.2 OTHER SAFETY CHARACTERISTICS

Not relevant

SECTION 10. STABILITY AND REACTIVITY

10.1 REACTIVITY

The product is not reactive in normal handling and storage.

10.2 CHEMICAL STABILITY

The product is stable under normal handling and storage.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

May react with water.

10.4 CONDITIONS TO AVOID

Avoid exposing the substance to moisture during storage.

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10.5 INCOMPATIBLE MATERIALS

The substance may react with strong oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

The product is not expected to give any negative effects on health but should be handled according to good industrial practice.

11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

Acute toxicity:	Not classified as acutely toxic.
Skin corrosion/irritation:	Not considered a skin irritant.
Serious eye damage / irritation:	Not considered an eye irritant.
Respiratory or skin sensitization:	Not considered being sensitizing.
Germ cell mutagenicity:	Not considered to cause mutations in germ cells.
Carcinogenicity:	Not considered to be carcinogenic.
Reproductive toxicity:	Not considered to be toxic to reproduction.
Specific organ toxicity - single exposure (STOT):	If inhaled, dust may be irritating to the upper respiratory tract and lungs.
Specific organ toxicity - repeated exposure (STOT):	Not considered to cause damage to organs after repeated exposure.
Aspiration Hazard:	Not relevant since the substance is not a liquid.

Specific effects

-

11.2 INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties: Based on available information, this mixture contains no substance which is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations $\geq 0.1\%$ (w/w).

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SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as a hazardous to the environment and is not expected to result in any negative environmental consequences but should be handled according to good industrial standards.

12.1 TOXICITY

No data available.

12.2 PERSISTENCE AND DEGRADABILITY

No data for the product.

For inorganic substances no degradation test needs to be performed. However, the product is not expected to undergo photolysis or biodegradation.

12.3 BIOACCUMULATIVE POTENTIAL

No data for the product.

12.4 MOBILITY IN SOIL

No data for the product.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

The criteria for PBT and vPvB are not applicable to inorganic substances (montmorillonite, quartz).

Based on available information, no other substances in the mixture meet the criteria for PBT or vPvB substances according to Annex XIII of Regulation (EC) No 1907/2006 (REACH).

12.6 ENDOCRINE DISRUPTING PROPERTIES

Based on available information, this mixture contains no substance which is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations $\geq 0.1\%$ (w/w).

12.7 OTHER ADVERSE EFFECTS

None known.

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Product

Dispose of contents/container to approved waste disposal facility in accordance with local regulations. Prevent discharge into drains, watercourses etc.

Packaging

Well emptied packaging can be treated as conventional waste and be left for incineration (energy recovery). Emptied and cleaned packaging can be treated as conventional waste and be left for recycling.

EWC- code: 15 01 01 (Paper and cardboard packaging)

SECTION 14. TRANSPORT INFORMATION

This product is not covered by the regulations for transportation of dangerous goods.

	ADR/RID	ADN	IMDG	IATA
14.1 UN NUMBER OR ID NUMBER	N/A	N/A	N/A	N/A
14.2 UN PROPER SHIPPING NAME	N/A	N/A	N/A	N/A
14.3 TRANSPORT HAZARD CLASS	N/A	N/A	N/A	N/A
14.4 PACKING GROUP	N/A	N/A	N/A	N/A
14.5 ENVIRONMENTAL HAZARDS	N/A	N/A	N/A	N/A

14.6 SPECIAL PRECAUTIONS FOR USER

Not relevant.

14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not relevant.

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SECTION 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

This safety data sheet is prepared in accordance with the EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH) and Commission Regulation (EU) No 2020/878 of 18 June 2020 amending the European Parliament and Council Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH).

Regulations

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substance and mixtures (CLP).

Great Britain EH40, Workplace exposure limits (Fourth Edition 2020), Occupational Exposure Limits, UK.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste.

Other information

The product does not contain any substances listed in REACH Annex XIV (Authorization List) or on the EU Candidate List of Substances with Substances of Very High Concern (SVHC) in concentrations $\geq 0.1\%$ (w / w).

The product is not affected by any restrictions under REACH, Annex XVII.

15.2 CHEMICAL SAFETY ASSESSMENT

Not required.

SECTION 16. OTHER INFORMATION

Classification procedure

Test data is prioritized when classifying the product. When no test data are available, the classification rules in regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP) been used.

Abbreviations

ADN	International Carriage of Dangerous Goods by Inland Waterways
ADR	International Carriage of Dangerous Goods by Road
BCF	Bio Concentration Factor
EC ₅₀	Effective Concentration (concentration that gives response in 50 % of test subjects)
ECHA	European Chemical Agency
EmS	Emergency Schedule Information
IARC	International Agency for Research on Cancer

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IC ₅₀	Inhibitory Concentration (concentration that shows inhibition in 50 % of the test subjects)
IATA/ ICAO	IATA Dangerous goods regulation / ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG	International Maritime Dangerous Goods Code
LC ₅₀	Lethal Concentration (concentration causing the death of 50 % of a group of test animals)
LD ₅₀	Lethal Dose (dose causing the death of 50 % of a group of test animals)
LD _{LO}	Lethal Dose Low (= Lowest dose of a toxic material at which the death of the exposed test animal occurs.
Log P _{ow}	Partition coefficient octanol - water
PBT	Persistent Bio-accumulative and Toxic
RID	International <i>Carriage of Dangerous Goods by Rail</i>
STEL	Short Term Exposure Limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	very Persistent and very Bioaccumulative

Advice about education

The user of this product should have training that is relevant to the properties of the product and relevant use.

References

Classification & Labelling Inventory Database, ECHA.
Registered substances, ECHA.
Information from the supplier.

Version description

This is the first version.

