

MATERIAL SAFETY DATA SHEET

1. SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Identification: Sorbent aluminosilicate

Product Name "Sorbent AS"

Chemical Characteristic: "Sorbent AS" acts as a catalyst in oxidation reactions of dissolved oxygen interaction with iron compounds (II) and (III), which is formed as a result of iron hydroxide (III), which is not readily soluble compound and the water is removed reverse current. Hydrogen sulfide is also oxidized and trapped in the layers of subsequent removal of the boot from the reverse current of water. The sorbent regeneration does not require use of any chemical reagents.

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2. COMPOSITION

Components (name)	mass share, %	№ CAS
Silicon dioxide	up to 80	7631-86-9
Aluminium oxide	up to 7	1344-28-1
Ferric oxide	up to 5	1345-25-1
Calcium oxide	up to 4	1305-78-8
Magnesium oxide		1309-48-4
Potassium oxide	up to 3	12136-45-7
Sodium oxide		1313-59-3

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Sorbent aluminosilicate
"Sorbent AS"

3. HAZARD IDENTIFICATION

Under normal conditions of use and handling, this product is not expected to create any health or safety hazards.

GHS Classification

H316: Skin irritation

H320: Causes eye irritation

GHS Label Elements

Not known

Under normal conditions of use and handling, this product is not expected to create any health or safety hazards.

Skin contact:	May cause skin irritation.
Eye contact:	May cause eye irritation.
Inhalation:	Inhalation can cause irritation to respiratory system.
Ingestion:	The product gets hot as it adsorbs water. Burns to moist body tissues can result if contact is prolonged..

4. FIRST AID MEASURES

Skin contact:	Wash affected area with soap and water.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
Inhalation:	A hazard caused by the inhalation of the product is unlikely, Therefore, no special treatment is necessary. Fiber fly, dust and decomposition products of the finishes are to be avoided by means of removal by suction and ventilation. If exposed to excessive levels of fiber dust or fly, remove to fresh

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air and get medical attention if cough or other symptoms develop.

Ingestion: Drink at least 2 glasses of water. Obtain medical attention..

5. FIRE FIGHTING MEASURES

Flash Point	N/D	NFPA Hazard Rating:	
Autoignition Temperature	N/D	Health:	1 = Moderate
		Fire:	0 = Insignificant
		Reactivity:	1 = Moderate
		Special:	N/D

Fire and Explosion Hazards readily flammable

Hazards

Extinguishing The product itself does not burn.

Media

Special Firefighting Procedures In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

6. ACCIDENTIAL RELEASE MEASURES

Precautions if Material is Spilled or Released Equip cleanup crews with proper protective equipment (as specified in Section 8) and advise of hazards. Collect as much as possible in a clean container for preferable

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reuse or disposal. Avoid dust generation. Do not allow material to escape into drains or waterways.

7. HANDLING AND STORAGE

Handling, Storage and Wash thoroughly after using this product.

Decontamination Procedures

Do not eat, drink, smoke or apply cosmetics while handling this product. Avoid breathing dust or particles generated by this product. Use in a well-ventilated location.

Remove contaminated clothing after being in contact with the product.

Employees who handle this material should be trained to handle it safely.

Open containers slowly on a stable surface.

Containers of this product must be properly labeled.

Empty containers may contain residual amounts of this product, therefore, empty containers should be handled with care. Store containers in a dry location. Store away from incompatible materials.

Keep container tightly closed when not in use.

Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Where possible, use adequate ventilation to keep vapor and mist concentrations of this

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material below the Occupational Exposure Limits shown in Section 2. Electrical equipment should comply with National Electrical Code (NEC) standards (see Section 7).

Respiratory

Where there is potential for exposure to hydrogen sulfide gas in excess of the permissible exposure limit, a NIOSH/MSHA-approved supplied-air respirator operated in positive pressure mode should be worn. If hydrogen sulfide gas is not present in excess of permissible exposure limits, a NIOSH/MSHA-approved air-purifying respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations of hydrocarbon vapor may exceed the exposure limits in Section 2. Where work conditions may generate airborne mists of the material, also use a high-efficiency particulate pre-filter. Consult a health and safety professional for guidance in respirator selection. Respirator use should comply with OSHA 29 CFR 910.134. **CAUTION:** The protection provided by air-purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are not known, or if concentrations exceed the protection limits of the airpurifying respirator.

Eyes

Eye protection should be worn. If there is potential for splashing or spraying, chemical protective goggles and/or a face shield should

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be worn. If contact lenses are worn, consult an eye specialist or a safety professional for additional precautions. Suitable eye wash water should be available in case of eye contact with this material.

Skin

Avoid all skin contact with this material. If conditions of use present any potential for skin contact, clean and impervious clothing such as gloves, apron, boots, and facial protection should be worn. Neoprene, Nitrile, Butyl Rubber or Viton glove material is recommended.

When working around equipment or processes which may create the potential for skin contact, full body coverage should be worn, which consist of impervious boots and oilresistant coated Tyvek suit or other impervious jacket and pants.

Other Hygienic and Work Practices

Use good personal hygiene practices. If skin contact should occur, material should be removed from the skin with a waterless hand cleaner, and the affected area should then be washed with a mild soap and water. Wash hands and other exposed areas thoroughly before eating, drinking, smoking or using toilet facilities.

9. PHYSICAL AND CHEMICAL PROPERTIES
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Boiling Point:	N/DA
Viscosity Units, Temp.	N/DA
Dry Point:	N/AP

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Freezing Point:	N/DA
Vapor Pressure, Temp.	N/DA
Volatile Characteristics:	N/DA
Solubility in Water:	Insoluble

10. STABILITY AND REACTIVITY

Stability	Stable
Hazardous Polymerization	None.
Other Chemical Reactivity	N/AP
Conditions to Avoid	The addition of moisture (water) without flooding can cause rise in temperature from heat of adsorption, and contact with skin might result in burns.
Materials to Avoid	Hydrofluoric acid.
Hazardous or Decomposition Products	None.

11. TOXICOLOGICAL INFORMATION

Mutagenicity, Embryotoxicity and Teratogenicity	This product is not reported to produce mutagenic, embryotoxic, and teratogenic effects in humans.
Reproductive Toxicity	This product is not reported to cause reproductive effects in humans.
Sensitization Information	The components of this product are not known to be sensitizers with repeated or prolonged use.
Animal Toxicity	LD 50 (ORAL ,RAT)= >10000 mg/kg LD 50 (ORAL,MICE) => 150000 mg/kg

12. ECOLOGICAL INFORMATION

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Biodegradation:

No data available

Eco-toxicity:

EC0 : >1000 PPM (daphnia magna) (24-hours ac immobilization test)

EC0: >10000 PPM (rainbow trout) (4-days static study).

EC0: >10000 PPM (freshwater fish) (96-hours st: toxicity study).

LD 50 (CARP)= 10000 mg/ lt /72 hrs

13. DISPOSAL CONSIDERATIONS

Disposal

Consult federal, state and local waste regulations to determine appropriate waste characterization of material and allowable disposal methods.

14. TRANSPORT INFORMATION

Department of Transportation Classification

Identification number

N/D

Proper shipping name

Sorbent aluminosilicate "Sorbent AS"

Class / Division

not classification

Emergency Response Guide

N/D

IMDG

Identification number

N/D

Class / Division

N/D

Packing group

N/D

IATA (Country variations may apply)

Identification number

N/D

Class / Division

N/D

Subsidiary class/Division

N/D

Packing group

Not Relevant

ICAO: International Civil Aviation Organisation

Identification number

not classification

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ueukClass / Division

not classification

Packing group

Not Relevant

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15. REGULATORY INFORMATION

TSCA Inventory Status:	All components are listed on the TSCA list.
SARA Title III	
Section 302 Extreme	Not listed
Hazardous Substance List:	
Section 311/312 Hazard	
Classification:	
Immediate (acute):	No
Delayed (chronic):	No
Fire:	No
Sudden Release of Pressure:	No
Reactive:	No
Section 313 Toxic	Not listed
Chemicals:	
RCRA Hazardous Waste:	Not listed

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Company «ALSIS» shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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