

Material Safety Data Sheet



Ligno, powder

Date: 01.10.2024

Version 1.0

1. CHEMICAL PRODUCT AND MANUFACTURER OR SUPPLIER IDENTIFICATION

1.1 Product identifier

Trade name : Ligno, powder.
Chemical name : Sodium Lignosulfonate
Synonyms Sodium Salt of Lignosulphonic Acid.
Registration number : CAS: 8061-51-6

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

Product application : Industrial use

1.3 Details of the supplier of the Safety Data Sheet

Company Chemistry Land for Adhesive and Materials
Al-Luweibdeh, Al-Shariaah College St.,
Complex 32, 1st floor, Office 2
Telephone +962-7-9576-8586
E-mail gm@chemistryland.com.jo

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to REGULATION (EC) No 1272/2008

N/A

Classification according to Directive 67/548/EEC (1999/45/EC)

N/A

2.2 Label elements

Labeling according to REGULATION (EC) No 1272/2008

N/A

2.3 Other hazards

Substance does not meet the criteria for classification as PBT or vPvB.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

There are no hazardous substances.

Main components of the product are indicated in the following table.

Chemical name	CAS №	EC №	Content, weight %
Sodium Lignosulfonate	8061-51-6	N/A	82-84
Ash (by sodium sulfate)	7757-82-6	231-820-9	4
Reducing substance (by glucose)	N/A	N/A	6
Water	7732-18-5	231-791-2	Balance up to 100

4. FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : In case of emergency or feeling seek immediately seek medical advice.
- Inhalation : Move to fresh air in case of inhalation. In case of respiratory failure perform artificial lung ventilation. In case of breathing difficulty give oxygen.
- Skin contact : In case of skin contact, wash off with plenty of water.
- Eye contact : If possible try to protect eyes from damage. Remove eye-lenses, if you use them and if it is easy to do. Thoroughly wash off eyes with plenty of water.
- Ingestion : Drink a lot of water, activated carbon, saline purgative.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Water, foam, dry powder

Unsuitable extinguishing media : No data available.

5.2 Special hazards arising from the substance or mixture

Specific hazards : Fire may cause formation of hazardous products of thermal destruction (See Section 10).

5.3 Advices for firefighters

Special protective equipment for fire-fighters : In case of fire use a self-contained breathing apparatus. Use personal protective equipment.

Further information : Follow standard procedure of chemical fire extinguishing. Use extinguishing media according to the main source of fire. In case of open fire try to avoid inhalation of fumes. Disposal of products of combustion and contaminated water after fire-fighting should be performed in accordance with requirements in force.

6. PREVENTIVE MEASURES AND LIQUIDATION OF EMERGENCY SITUATIONS AND THEIR CONSEQUENCES

6.1 General emergency procedures

See also measures, indicated in Sections 7 and 8. Use personal protective equipment/ avoid skin and eyes contact. Provide efficient ventilation, especially in closed areas. Evacuate personnel to a safe place. Avoid dust inhalation.

6.2 Environmental precautions

In case of product runoff to surface water and sewage, it is necessary to inform appropriate authorities about it. Avoid spillage to the environment. Follow special guidelines and safety regulations.

6.3 Waste disposal/removal methods

Prevent spillage to catch basins and on soil. Sweep and collect, not producing dust, then process or dispose it in accordance with applicable guidelines and product peculiarities.

6.4 Reference to other sections

See Section 7, 8, 11, 12 and 13.

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7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Avoid contact with skin and eyes. Avoid inhalation of dust. Avoid exposure – obtain special instructions before use.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage including any incompatibilities

Requirements for storage : Store in tightly closed factory package in dry well-ventilated areas and containers

General recommendations : Store away from product stock, water and animal feed. Not compatible with acids and alkalis..

Storage period : 1 year.

Storage temperature : > 0 °C

7.3 Specific end use(s)

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Work area parameters subject to obligatory control

Work environment parameters should be under control.
Product does not contain substantial amount of substances that should be controlled in the air of work area.

8.2 Exposure controls

Engineering measures to pertain allowable concentrations of harmful substances

Manufacturing equipment pressurization.
Provide highly efficient general supply and exhaust ventilation in work areas in order to prevent accumulation of dust, which may form in areas of product processing.

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Personal protective equipment

Respiratory protection : Half mask, full face mask if needed.

Remarks : Use respirators and components tested and approved under appropriate government standards CEN (EU).

Hand protection

Material : Canvas gloves

Remarks : Selection of chemical safety gloves type depends of concentration and amount of hazardous substances on a particular work place. It is recommended to ask manufacturer of above-mentioned protective gloves about chemical defense level of in each particular case.

Eye protection : Safety goggles

Remarks : Use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU).

Skin and body protection : Protective cotton clothing.

Remarks : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing mist or spray.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.

Environmental exposure controls

No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form : Powder.
Colour : From light brown to dark brown
Odour : Faint
Odor threshold : No data available.
Flash point : No data available.
Ignition temperature : No data available.
Lower explosion limit : No data available.

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Upper explosion limit	: No data available.
Explosive properties	: No data available
Inflammability	: Yes
Oxidizing properties	: Oxidizes
Auto-ignition temperature	: 451 °C
Melting point/range	: No data available.
Molecular weight	: No data available,
pH	: No less than 4 (mass fraction of dry substance in solution - 2.5%)
Boiling point/boiling range	: Not applicable.
Vapor pressure	: No data available.
Density	: Not applicable.
Bulk density	: $\geq 400 \text{ kg/m}^3$
Water solubility	: Complete.
Partition coefficient: n-octanol/water	: No data available.
Solubility in other solvents	: No data available.
Viscosity, dynamic	: Not applicable.
Viscosity, kinematic	: Not applicable.
Relative vapor density	: No data available.
Surface tension	: Not applicable.
Evaporation rate	: No data available.
Minimum ignition energy	: No data available.

9.2 Other information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Oxidizes.

10.2 Chemical stability

Extremely stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Protect from moisture.

10.5 Incompatible materials

Materials to avoid : Acids, alkalis.

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10.6 Hazardous decomposition products

Hazardous decomposition products : Fire may cause formation of hazardous products:
Carbon oxide, sulfur oxide, sodium oxide.

Thermal decomposition : Yes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

LD₅₀ (rats): 6300 mg/kg

Acute inhalation toxicity

No data available.

Acute dermal toxicity

No data available.

Acute toxicity (other routes of administration)

No data available.

Skin corrosion / irritation

Skin irritation : Does not cause irritation.

Serious eye damage / eye irritation

Eye irritation : Does not cause irritation.

Sensitization of the respiratory / skin

Skin sensitization : Does not cause sensitization.

Respiratory sensitization : Does not cause sensitization.

Mutagenicity

No data available.

Carcinogenicity

No data available.

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Reproductive toxicity

No data available.

Teratogenicity

No data available.

Toxicity for target organs during single exposure

No data available.

Toxicity for target organs during repeated exposures (subacute / subchronic)

Toxicity during single/ repeated exposures (subacute / subchronic):

No data available.

Aspiration hazard

No data available.

Neurological effects

No data available.

Toxicology, metabolism, distribution

No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates:

No data available.

Toxicity to aquatic plants:

No data available.

12.2 Persistence and degradability

Biodegradability : No data available.

12.3 Bioaccumulation potential

No data available.

12.4 Mobility in soil

No data available.

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12.5 Results of PBT assessment and vPvB

No data available.

12.6 Other adverse effects

Additional ecological information : No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Advice on disposal and packaging : Disposal:
Operate in accordance with local and federal legislation.
Product and its package should be disposed of safely. Re-release into drain and disposal together with household wastes are banned.
Codes of wastes are to be determined by consumers on the basis of product field of application.

14. TRANSPORT INFORMATION

ADR

Not dangerous goods.

RID

Not dangerous goods.

IATA

Not dangerous goods.

IMDG

Not dangerous goods.

Special precautions for the user

See sections 6,7 and 8

15. REGULATORY INFORMATION

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

Special labelling of certain mixtures : Restricted to professional users.

Seveso Directive (96/82/EC) : Directive does not apply.

15.2 CSA

Chemical safety assessment was not carried out.

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16. OTHER INFORMATION

Hazard statements:

- H335 : May cause irritation of upper respiratory passages.
H413 : May cause long-term adverse effects for aquatic life.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.