



Shandong Jufu Chemical Technology Co., Ltd.

Material Safety Data Sheet

Material Safety Date Sheet

CALCIUM LIGNOSULFONATE

Section 1 : Chemical Product and Company Identification

Product Name : Calcium Lignosulfonate	Contact Information :
CAS # : 8061-52-7	SHANDONG JUFU CHEMICAL TECHNOLOGY CO.,LTD.
Synonym : Lignosulfonic acid calcium salt	Bld.4-1001, No.2177, Tianchen Rd., Jinan, Shandong,
Chemical Formula : C ₂₀ H ₂₄ CaO ₁₀ S ₂	China-250101
Formula Weight: 528.61	TEL/FAX : 86-0531-88987705

Section 2 : Composition and Information on Ingredients

Composition name:	CAS#	% BY WEIGHT
Calcium Lignosulfonate	8061-52-7	93%
Water	7732-18-5	7%

Section 3 : Hazards Identification

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal tract irritation.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Section 4 : First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Skin Contact:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Eye Contact:

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid.

Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Section 5 : Fire Fighting measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Use agent most appropriate to extinguish surrounding fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 6: Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7: Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.

Storage: Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry and well-ventilated area away from incompatible substances. Store protected from moisture.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipments:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN149 must be followed whenever workplace conditions warrant respirator use.

Section 9 : Physical and Chemical Properties

Physical state and appearance: Powder

Color: Brown

Odor: Sight odor

Chemical uses:

1.Can be used as a water-reducing agent for concrete,and applicable for projects such as culvert,dike,reservoirs,airports,expressways and so on.

2. Wettable pesticide filler and emulsified dispersant; adhesive for fertilizer granulation and feed granulation
3. Coal water slurry additive
4. Can be applied to a dispersant, an adhesive and a water reducing and reinforcing agent for refractory materials and ceramic products, and improve finished product rate by 70 to 90 percent.
5. Can be used as a water plugging agent for geology, oilfields, consolidated well walls and oil exploitation.
6. Used as a scale remover and a circulating water quality stabilizer on boilers.
7. Sand preventing and sand fixing agents.
8. Used for electroplating and electrolysis, and can ensure that the coatings are uniform and have no tree-like patterns.
9. Used as a tanning auxiliary in leather industry.
10. Used as a flotation agent for ore dressing and an adhesive for mineral powder smelting.
11. Long-acting slow-release nitrogen fertilizer agent, a modified additive for high-efficiency slow-release compound fertilizers
12. Used as a filler and a dispersant for vat dyes and disperse dyes, a diluent for acid dyes and so on.
13. Used for cathodal anti-contraction agents of lead-acid storage batteries and alkaline storage batteries, and can improve the low-temperature urgent discharge and service life of the batteries.

Section 10 : Stability and Reactivity Data

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, exposure to moist air or water.
Incompatible with Other Materials:	Strong acid, strong oxidants.
Hazardous decomposition products:	Nature of decomposition products not known.
Hazardous Polymerization:	Will not occur.

Section 11 : Toxicological Information

RTECS#:	Not available
LD50/LC50:	Not available
Carcinogenicity:	Have not been thoroughly investigated.
Other:	Not available

Section 12 : Ecological Information

Ecotoxicity : Not available.
 BOD5 and COD : Not available.
 Products of Biodegradation :
 Toxicity of the Products of Biodegradation : Not available.
 Special Remarks on the Products of Biodegradation : Not available.

Section 13 : Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority for advice.
 Empty containers must be decontaminated before returning for recycling.

Section 14 : Transport Information

Road and Rail Transport:

Not classified as a Dangerous Good.

Marine Transport:

Not classified as a Dangerous Good by the criteria of the International Maritime Dangerous Goods Code for transport by sea. NON-DANGEROUS GOODS.

Air Transport:

Not classified as Dangerous Goods by the criteria of the International Air Transport Association Dangerous Goods Regulations for transport by air. NON-DANGEROUS GOODS.

Section 15 : Regulatory information

Regulatory Information: Reference to the local, national and EU/international regulations.

Hazard Symbols: Not available

Risk Phrases: Not available

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Section 16: other Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.