

Safety Data Sheet

MARASPERSE CBOS-4 - POWDER

SECTION 1: Identification

1.1. Product identifier used on the label

Trade name: MARASPERSE CBOS-4 - POWDER

1.2. Recommended use of the chemical and restrictions on use

Recommended uses: Binder
Dispersing agent

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Borregaard USA, Inc
Address: 100 Grand Avenue
Rothschild, WI 54474-1198
Country: UNITED STATES OF AMERICA
Email: customer.bus@borregaard.com
Phone: +1(715)359-6544
Fax: +1(715)355-3648

1.4. Emergency phone number

+1(715)359-6544 (Emergency phone)
+1(800)424-9300 (Chemtrec phone) (24h)

SECTION 2: Hazard Identification

2.1. Classification of the chemical in accordance with paragraph (d) of §1910.1200

HazCom classification: The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

HazCom classification - other information: The product does not have to be classified.

2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

2.3. Other hazards which do not result in classification

Nuisance dust.
OSHA Hazard Category: Combustible Dust. Warning. May form combustible dust concentrations in air.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	Concentration	Notes
Sodium lignosulfonate	8061-51-6	≥ 92 %	
Water	7732-18-5	≤ 8 %	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air.

Safety Data Sheet

MARASPERSE CBOS-4 - POWDER

Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
Skin contact:	Wash the skin with water. Remove contaminated clothing.
Eye contact:	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

4.2. Most important symptoms/effects, acute and delayed.

Nuisance dust.

4.3. Indication of immediate medical attention and special treatment needed, if necessary.

None.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media.

Suitable extinguishing media: Extinguish with powder, foam, carbon dioxide or water mist.

Unsuitable extinguishing media: Do not use a jet of water, as it may spread the fire.

5.2. Specific hazards arising from the chemical

Note the risk of dust explosion.

5.3. Special protective equipment and precautions for fire-fighters.

Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Avoid formation of dust. Provide good ventilation.

6.2. Environmental precautions

Avoid unnecessary release to the environment. Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Sweep up/collect spills for possible reuse or transfer to suitable waste containers.

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Work under effective process ventilation (e.g. local exhaust ventilation).

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry, cool, well-ventilated area. Avoid accumulation of dust.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

MARASPERSE CBOS-4 - POWDER

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	Fiber/cm3	Remarks	Notations
Nuisance dust (OSHA PELV)	OSHA		15		(total) and 5 mg/m ³ respirable	

Biological threshold values: Avoid formation of dust.

8.2. Exposure controls

Appropriate engineering controls: Provide good ventilation.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of dust contact with eyes.

Personal protective equipment, skin protection: In the event of direct skin contact, wear protective gloves:

Personal protective equipment, respiratory protection: Wear respiratory protective equipment with P2 filter when performing dusty work. NIOSH approved dust mask recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
physical state	Powder
Color	Brown
Odour	Mild
Solubility	Water soluble.

Parameter	Value/unit	Remarks
Odour threshold	ppm	Not applicable.
Melting point	°C	Not applicable.
Freezing point	°C	Not applicable.
Initial boiling point and boiling range	°C	Not applicable.
Flammability (solid, gas)		Not applicable.
Upper/lower flammability limits		Not applicable.
Explosion limits	vol%	LEL: 0.2 oz./cu.ft. UEL: 3.5 oz./cu.ft.
Flash Point	°C	Not applicable.
Auto-ignition temperature	> 400 °C	
Decomposition temperature	> 200 °C	
pH (solution for use)	8 - 10	
pH (concentrate)		Not applicable.
Kinematic viscosity	No data	
Viscosity	cSt	Not applicable.
Partition coefficient n-octanol/water		100% Water.
Vapour pressure	kPa	Not applicable.
Density	0.37 - 0.56 g/ml (bulk density)	
Relative density		Not applicable.
Relative vapour density		Not applicable.
Relative density (sat. air)	No data	
Particle characteristics	No data	

Safety Data Sheet

MARASPERSE CBOS-4 - POWDER

9.2. Other information

Parameter	Value/unit	Remarks
Evaporation rate		Not applicable.
Combustible Dust Characteristics		MIE: 1130 mJoule; Kst: St1 (0-200 bar*m/s); Part size: 100% < 150 micron.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid formation of dust. Avoid spark due to static electricity.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Typical combustion products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Sodium lignosulfonate, cas-no 8061-51-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000 mg/kg			Similar product

Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation: The product does not have to be classified.

Skin corrosion/irritation

Sodium lignosulfonate, cas-no 8061-51-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating	OECD 404	Similar product

The product does not have to be classified.

Serious eye damage/eye irritation

Sodium lignosulfonate, cas-no 8061-51-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating	OECD 405	Similar product

The product does not have to be classified.

Respiratory sensitization or skin sensitization

Safety Data Sheet

MARASPERSE CBOS-4 - POWDER

Sodium lignosulfonate, cas-no 8061-51-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse				Non-sensitizing	OECD 429	Similar product

None known.

Germ cell mutagenicity: None known.

Carcinogenic properties

Sodium lignosulfonate, cas-no 8061-51-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Bacteria				Not mutagenic	Ames test	Similar product

The product does not have to be classified.

11.2. Information on other hazards

SECTION 12: Ecological information

12.1. Ecotoxicity

Sodium lignosulfonate, cas-no 8061-51-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Brachydanio rerio		EC50	> 1000 mg/l			Similar product
Algae	Scenedesmus subspicatus	24, 48, 72h	EC50	> 600 mg/l			Similar product
Crustacea	Daphnia magna	24, 48h	EC50	> 1000 mg/l			Similar product

No effect on the environment. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

Partially biodegradable. 0.07 lbs BOD/lb of solids & 0.245 lbs COD/lb of solids.

12.3. Bioaccumulative potential

No bioaccumulation expected.

12.4. Mobility in soil

Solubility in water: Completely miscible

12.5. Results of PBT and vPvB assessment

12.6. Endocrine disrupting properties

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with Local Authority requirements.

SECTION 14: Transport information

14.1. UN number: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.4. Packing group: Not applicable.

14.5. Environmental hazards: Not applicable.

Safety Data Sheet

MARASPERSE CBOS-4 - POWDER

14.3. Transport hazard class(es): Not applicable.

14.6. Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

None.

14.7. Transport in bulk (according to IMO instruments)

Not applicable.

Other Information: DOT Class 55 Lignin Pitch - Harmonized Tariff Code for US:3804.00.1000-0

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Special Provisions: ADR/RID (2017), GHS / CLP (EC NO1272/2008) GHS USA June, 2015.

Authorisations / limitations: Global Inv. Status:
Global Inv. - Australia: On AICS Australian Inv. of Chemical Substances, June 1996 Ed
Global Inv. - Canada: On DSL Supplement to Canada Gazette, Part I, January 26, 1991
Global Inv. - China: On IECSC Inventory of Existing Chemical Substances in China, 2013
Global Inv. - Europe - Exempt from REACH registration according to Article 2(9). Modifying agents of the chemically modified polymer has been registered.
Global Inv. - Japan: On ENCS Unlisted chemical name. For ENCS chemical class or category name, refer to ENCS No. 8-209.
Global Inv. - Mexico: On INSQ National Inventory of Chemical Substances in Mexico, 2012
Global Inv. - New Zealand: On NZIoC New Zealand Inventory of Chemicals, 2006 May be used as a single component chemical under an appropriate group standard.
Global Inv. - Philippines: On PICCS Philippines Inventory of Chemicals and Chemical Substances, 2000
Global Inv. - South Korea: On ECL Korean Existing Chemicals List, January 1997, ECL Serial No.: KE-04572
Global Inv. - Switzerland: On SWISS Giftliste 1 (List of Toxic Substances 1), 31 May 1999, SWISS No.: G-44534
Global Inv. - USA: On the Active Status TSCA Inventory June 2020 TSCA Inventory
Commercial Status: Active. EPA Flags: XU Exempt from Chemical Data Reporting

NFPA ratings

Health hazard: 1

Flammability: 1

Instability: 0

15.2. Chemical Safety Assessment

Other Information: The product does not have to be classified.

SECTION 16: Other information

Other Information: Government regulations for use of this product are summarized below (USA):
21 CFR 172.715 - Dispersant in pesticides applied pre- or post-harvest.
21 CFR 175.105 - Adhesives
21 CFR 176.170; 176.180; 176.200; 178.3120 - Paper and paperboard components
21 CFR 176.210 - Defoamers
21 CFR 177.1210 - Polymers - sodium lignosulfonate
21 CFR 573.600 - Food additives permitted in feed and drinking water of animals.
21 CFR 582.99 - Substances generally recognized as safe; adjuvants for pesticide chemicals
40 CFR 180.910; 180.930; 180.1001; 21 CFR 182.99 - Exemptions from the requirement of a tolerance: Inert ingredients used pre- and post-harvest; or applied to animals; or adjuvants for pesticide chemicals

Safety Data Sheet

MARASPERSE CBOS-4 - POWDER

Vendor notes:

Information given in this safety data sheet is in accordance with our information, and to the best of our knowledge, was correct on the last revision date. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

Revision date:

7/14/2021

Country:

US