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Product name: Boron 10%

SECTION 1: Identification

Product identifier used on the label:

Product Name: Boron 10%

Other means of identification:

Synonyms: Ulexite, Sodium-Calcium Borate
Product Code Number: 2BR1000ULK00, 2BR1020ULB50, BR1020ULT00.
SDS number: CC004US

Recommended use of the chemical and restrictions on use:

Recommended use: Fertilizer Micronutrient Additive.
Recommended restrictions: Not intended for human consumption.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Company Name: Cameron Chemicals, Inc.
Company Address: 830 Old Dill Road,
Suffolk, VA 23434
Company Telephone: (757) 934-2142
8.00am to 5.00pm

Company Contact Name Mark Whitfield
Company Contact Email mwhitfield@cameronchemicals.com

Emergency phone number: Chemtrec USA: 800-424-9300 (24hrs)

SECTION 2: Hazard(s) identification

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

Physical hazards

No physical hazards under GHS.

Health hazards

Toxic to reproduction. Category 1A.

Environmental hazards

Not adopted under OSHA GHS

GHS Signal word: DANGER.

GHS Hazard statement(s): H360 - May damage fertility and the unborn child.

GHS Hazard symbol(s):



GHS Precautionary statement(s):

Prevention:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection - NIOSH/MSHA-approved particulate respirator.

Response:

- If exposed or concerned: Get medical advice/attention

Storage:

- Store locked up.

Disposal:

- Dispose of contents/container to a suitable treatment site in accordance with local/regional/international regulations.

Hazard(s) not otherwise

Classified (HNOC): None known.

Percentage of ingredient(s) of unknown acute toxicity:

Not applicable.

SECTION 3: Composition/information on ingredients

Mixture: Ulexite mixture.

Chemical name	CAS#	Concentration (weight %)
Ulexite	1319-33-1	100%

Note: The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SECTION 4: First-aid Measures

Description of necessary measures:

Inhalation: Remove to a fresh air environment. Seek medical attention if irritation persists.

Skin contact: Wash with plenty of water. Seek medical attention if irritation persists.

Eye contact: Wash with running water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Induce vomiting (lean victim forward to reduce risk of aspiration). Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Obtain medical attention.

Most important symptoms/effects, acute and delayed:

Occasional mild irritation effects to the nose and throat may occur from inhalation. Eye irritation may occur.

Indication of immediate medical attention and special treatment needed, if necessary: If any symptoms are observed, contact a physician and give them this SDS sheet. Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Product is not combustible. Use extinguishing media that is suitable for surrounding materials.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical:

None expected.

Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus and protective clothing. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Evacuate personnel to safe areas. Wear appropriate protective equipment, including

respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Methods and materials for containment and cleaning up:

Small Spills: Sweep up and try to keep dust to a minimum.

Large Spills: Sweep up and try to keep dust to a minimum.

Containment: Do not release into sewers or waterways.

See Section 13 for information on appropriate disposal.

SECTION 7: Handling and Storage

Precautions for safe handling: Use proper safety equipment at all times. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Wash hands before breaks and at the end of work. Clothing being used around chemicals should be cleaned daily.

Conditions for safe storage, including any incompatibles:

Store materials in a cool dry place. Store only in the original container. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Substance	PEL-TWA (8 hour)	PEL-STEL (15 min)
Ulexite	15 mg/m ³ - total dust 5 mg/m ³ - respirable dust	None known

US ACGIH Threshold Limit Values

Substance	TLV-TWA	TLV-STEL	REMARKS
Ulexite	2 mg/m ³	6 mg/m ³	n/a

US NIOSH Recommended Exposure Limits

Substance	TLV-TWA	TLV-STEL
Ulexite	10 mg/m ³	None known

Appropriate engineering controls: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Skin and Hand protection: Wear protective gloves, boots, and aprons to prevent prolonged or repeated skin contact.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Other:

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Consider periodic medical exams of exposed workers with emphasis on skin, respiratory, and blood screening.

Thermal hazards: None established.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.):

Granular solid

Color:

White.

Odor:

No odor.

Odor threshold:

Not determined

pH:

7.3 (200°C and 10gr/1L H₂O)

Melting point/freezing point:

No data available

Initial Boiling Point and boiling range:

No data available

Flash point:

No data available

Evaporation rate:

No data available

Flammability (solid, gas):

Not flammable

Upper/lower flammability or explosive limits

Flammability limit – lower (%):	No data available
Flammability limit – upper (%):	No data available
Explosive limit – lower (%):	No data available
Explosive limit – upper (%):	No data available
Vapor pressure:	No data available
Vapor density (air=1):	No data available
Relative density (water = 1):	0.8 – 0.9 (800-900 kg/m ³)
Solubility(ies):	Varied Solubility in water
Partition coefficient	
n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	Not established
Viscosity:	No data available
Density:	48 lbs Cubic Foot

SECTION 10: Stability and Reactivity

Reactivity:	Stable.
Chemical stability:	This product is stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions:	Hazardous polymerization cannot occur.
Conditions to avoid:	Avoid moisture.
Incompatible materials:	Incompatible with oxidizing agents, acids, reducing agents and sources of ignition. Reaction with strong reducing agents such as metal hydrides will generate hydrogen gas which could create an explosive hazard.
Hazardous decomposition products:	None expected.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation:	Inhalation is the most significant route of exposure in occupational and other settings. Prolonged exposure to high concentrations of dust may cause mild irritation to the respiratory system.
Ingestion:	Not an expected route of entry.
Skin:	Not an expected route of entry.
Eyes:	Not a primary route of entry but may cause irritation.
Target Organ(s):	Eyes, Respiratory system.

Symptoms related to the physical, chemical, and toxicological characteristics:

Eye irritation may occur.

Delayed and immediate effects and chronic effects from short or long-term exposure:

Prolonged exposure to high concentrations of dust may cause mild irritation to the respiratory system.

Numerical measures of toxicity:

Acute toxicity estimates:

Ingredient Information:

Substance	Test Type (species)	Value
Ulexite	LD ₅₀ Oral (Rat)	2660 mg/kg
	LD ₅₀ Dermal (Rat)	No data available
	LC ₅₀ Inhalation (Rat)	No data available

Skin corrosion/irritation: Not expected to cause skin irritation.

Serious eye damage/eye irritation: May cause eye irritation.

Respiratory sensitization: No information available on the mixture, however none of the components have been classified as a respiratory sensitizer (or are below the concentration threshold for classification).

Skin sensitization: No information available on the mixture, however none of the components have been classified as a skin sensitizer (or are below the concentration threshold for classification).

Germ cell mutagenicity: No information available on the mixture, however none of the components have been classified as causing germ cell mutagenicity (or are below the concentration threshold for classification).

Carcinogenicity: No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

Reproductive toxicity: Toxic to reproduction. Category 1A. May damage fertility and the unborn child.

Specific target organ toxicity-Single exposure: No information available on the mixture, however none of the components have been classified as Specific target organ toxicity, single exposure (or are below the concentration threshold for classification).

**Specific target organ toxicity-
Repeat exposure:**

No information available on the mixture, however none of the components have been classified as causing Specific target organ toxicity, repeat exposure (or are below the concentration threshold for classification).

Aspiration hazard:

No information available on the mixture, however none of the components have been classified as causing an aspiration (or are below the concentration threshold for classification).

SECTION 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

Ingredient Information:

Substance	Test Type	Species	Value
Ulexite	LC ₅₀	Fish – <i>S.gairdneri</i> (Rainbow Trout)	150 mg/B/L-24d
	NOEC-LOEC	Fish – <i>S.gairdneri</i> (Rainbow Trout)	0.75-1 mg/B/L-36d
	LC ₅₀	Fish – <i>Carassius auratus</i> (Goldfish)	178 mg/B/L-3d
	NOEC-LOEC	Fish – <i>Carassius auratus</i> (Goldfish)	26.50 mg/B/L-7d
	LC ₅₀	Invertebrate - <i>Daphnia magna</i> (Water flea)	133 mg/B/L-48h
	NOEC-LOEC	Invertebrate - <i>Daphnia magna</i> (Water flea)	6-13 mg/B/L-21d

Persistence and Degradability:

Not determined

Bioaccumulative Potential:

This material is not expected to bio concentrate in fish.

Mobility in Soil:

On soil this product may leach into the groundwater. Because it is slightly soluble, removal by rain, snow or other precipitation is possible

**Other adverse effects (such as
hazardous to the ozone layer):**

No additional information available.

SECTION 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Product - Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations. This product has been evaluated for RCRA

characteristics and should not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render the resulting materials hazardous.

Contaminated packaging - Contaminated packaging may contain residues of product. Dispose of in the same manner as product. Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal.

SECTION 14: Transport Information

Land transport DOT

UN number	Not regulated under DOT
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group, if necessary	Not applicable

Maritime transport IMDG

UN number	Not regulated under IMDG
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group, if necessary	Not applicable

Air transport ICAO-TI and IATA-DGR

UN number	Not regulated under IATA
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group, if necessary	Not applicable

Environmental hazards

Marine pollutant: No.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No further relevant information available.

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.

SECTION 15: Regulatory Information

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

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. This product is not //hazardous under OSHA.

Toxic Substances Control Act (TSCA) – This substance is listed, as required, on the TSCA inventory.

SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370):

Acute Health Hazard: No

Chronic Health Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Section 313 Toxic Release Inventory (40 CFR 372): No components are listed.

STATE REGULATIONS:

This SD'S contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right to Know: No components are listed.

New Jersey Right to Know: No components are listed.

Pennsylvania Right to Know: No components are listed.

SECTION 16: Other information, including date of preparation or last revision

Revision Date: 10.01.2022

NEPA Rating

Health hazard: 1

Fire Hazard: 0

Reactivity Hazard: 0

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