

Safety Data Sheet

according to the United Nations GHS (Rev. 7, 2017)

Issue date:01/01/2016 Revision date: 03/01/2021 : Version: 02.1

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Substance

Trade name : GRANULAR ULEXITE

Chemical name : Ulexite, Sodium-Calcium Pentaborate Octahydrate

Substance type : Mono-constituent EC-No. : 603-535-3 CAS-No. : 1319-33-1 Product group : Trade product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended uses and restrictions : Not restricted

Recommended use : Agriculture (Fertilizer, Formulation of fertilizer)

1.4. Supplier's details

Supplier

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1.5. Emergency phone number

+90 312 294 20 00

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Not classified

Adverse physicochemical, human health and environmental effects

: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)

2.3. Other hazards which do not result in classification

Other hazards not contributing to the

: Ulexite is an inorganic substance and does not meet the criteria for PBT or vPvB substance.

classification

SECTION 3: Composition/information on ingredients

3.1. Substances

 Substance type
 : Mono-constituent

 Name
 : ULEXITE

 CAS-No.
 : 1319-33-1

 EC-No.
 : 603-535-3

Chemical name : Ulexite, Sodium-Calcium Pentaborate Octahydrate

Substance identification codes: See section 1.1

Name	Product identifier		Classification according to the United Nations GHS
Ulexite	(CAS-No.) 1319-33-1	≥ 69	Not classified
Calcite	(CAS-No.) 1317-65-3	≤ 16	Not classified
Clay		≤ 10	Not classified
Dolomite	(CAS-No.) 16389-88-1	≤ 5	Not classified

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3.2. **Mixtures**

Not applicable

SECTION 4: First-aid measures

Description of necessary first-aid measures

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact Wash skin with plenty of water. First-aid measures after eye contact Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

Most important symptoms/effects, acute and delayed

No additional information available

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. **Environmental precautions**

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Do not eat, drink or smoke when using this product. Always wash hands after handling the Hygiene measures

product.

Conditions for safe storage, including any incompatibilities

: Store in a well-ventilated place. Keep cool. Storage conditions

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

Individual protection measures, such as personal protective equipment (PPE)

Hand protection Protective gloves Eye protection : Safety glasses

Skin and body protection Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)

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8.4. Exposure limit values for the other components

No additional information available

Auto-ignition temperature

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties Physical state : Solid

Colour : Light grey. Odour odourless. Odour threshold Not available Melting point Not available Freezing point Not applicable **Boiling point** Not available Flammability (solid, gas) Non flammable. **Explosive limits** Not applicable Lower explosive limit (LEL) Not applicable Upper explosive limit (UEL) Not applicable Flash point Non flammable

Decomposition temperature : When heated above 45 C it looses its hydrate water

Not applicable

Not available pH solution Not available Viscosity, kinematic (calculated value) (40 °C) Not applicable Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure Not available Vapour pressure at 50 °C Not available Density Not available Relative density Not available Relative vapour density at 20 °C Not applicable

Solubility : Water: Moderately soluble

Particle size : 2-4

Particle size distribution : Not available
Particle shape : Not available
Particle aspect ratio : Not available
Particle specific surface area : Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

1	1.1.	Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitisation Not classified Germ cell mutagenicity Not classified Carcinogenicity : Not classified Reproductive toxicity Not classified STOT-single exposure : Not classified Not classified STOT-repeated exposure Aspiration hazard : Not classified

GRANULAR ULEXITE (1319-33-1)

Viscosity, kinematic Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Ulexite (1319-33-1)	-33-1)		
LC50 - Fish [1]	150 mg/l B Rainbow Trout (S.gairdneri)		
LC50 - Fish [2]	178 mg/l B Goldfish (Carassius auratus)		
NOEC chronic fish	26.5 mg/l B Goldfish (Carassius auratus)		
40.0 Production of Linear Little			

12.2. Persistence and degradability

GRANULAR ULEXITE (1319-33-1)

Persistence and degradability

Boron is naturally occurring and ubiquitous in the environment.

Ulexite (1319-33-1)

Persistence and degradability Boron is naturally occurring and ubiquitous in the environment.

12.3. Bioaccumulative potential

GRANULAR ULEXITE (1319-33-1)

Bioaccumulative potential Not bioaccumulative. Boron is a naturally occurring element. Boron does not accumulate up the food chain. It is not expected to bioconcentrate in fish.

Ulexite (1319-33-1)

Bioaccumulative potential

Boron is a naturally occurring element. Boron does not accumulate up the food chain. It is not expected to bioconcentrate in fish.

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12.4. **Mobility in soil**

	GRANULAR ULEXITE (1319-33-1)			
Mobility in soil		Ulexite is poorly soluble in water and will leach through the soil at very slow rate		
Ulexite (1319-33-1)				
Mobility in soil		Ulexite is poorly soluble in water and will leach through the soil at very slow rate.		
12.5. Other adverse effects				

Ozone : Not classified

: No additional information available Other adverse effects

SECTION 13: Disposal considerations

Disposal methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions. Waste treatment methods

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

UN RTDG	IMDG	IATA		
14.1. UN number				
Not regulated for transport	ot regulated for transport			
14.2. UN Proper Shipping Name				
Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.4. Packing group				
Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No		
No supplementary information available				

14.6. Special precautions for user

- UN RTDG

No data available

- IMDG

No data available

- IATA

No data available

Transport in bulk according to IMO instruments 14.7.

Not applicable

SECTION 15: Regulatory information

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Regulatory reference

Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances).

SECTION 16: Other information

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Section	Changed item	Change	Comments
		Modified	This SDS has been compiled in accordance with UN-GHS (Rev.6) (2015) for the first time. (January, 2016; Rev. No: 00)
		Added	This SDS was updated in line with "Standardization and Simplification of Bag Printings". (January, 2018; Rev. No: 01)

Abbreviations and acronyms

CAS-No. - Chemical Abstract Service number

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate BCF - Bioconcentration factor BLV - Biological limit value

BOD - Biochemical oxygen demand (BOD)

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

COD - Chemical oxygen demand (COD) DMEL - Derived Minimal Effect level DNEL - Derived-No Effect Level EC50 - Median effective concentration EC-No. - European Community number

EN - European Standard

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association IMDG - International Maritime Dangerous Goods IOELV - Indicative Occupational Exposure Limit Value

LC50 - Median lethal concentration

LD50 - Median lethal dose

LOAEL - Lowest Observed Adverse Effect Level

N.O.S. - Not Otherwise Specified

NOAEC - No-Observed Adverse Effect Concentration

NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration

OECD - Organisation for Economic Co-operation and Development

OEL - Occupational Exposure Limit
PBT - Persistent Bioaccumulative Toxic
PNEC - Predicted No-Effect Concentration

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS - Safety Data Sheet STP - Sewage treatment plant

ThOD - Theoretical oxygen demand (ThOD)

TLM - Median Tolerance Limit

TRGS - Technical Rules for Hazardous Substances

VOC - Volatile Organic Compounds

vPvB - Very Persistent and Very Bioaccumulative

WGK - Water Hazard Class

Normal use of this product shall imply use in accordance with the instructions on the

packaging.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be

applicable.

Other information

Training advice

SDS UN - ETİ Maden

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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