

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				
	ubstance			
Trade name : G	RANULAR COLEM	ANITE		
Chemical name : Ca	alcium borate, dicale	cium hexaborate penta	ahydrate	
Substance type : M	ono-constituent			
EC-No. : 81	17-854-2			
CAS-No. : 13	318-33-8			
Product group : Tr	ade product			
1.2. Other means of identification No additional information available				
I.3. Recommended use of the chemical and restrictions on use				
Recommended uses and restrictions : No	: Not restricted			
Recommended use : Ag	griculture (Fertilizer,	Formulation of fertiliz	er)	
1.4. Supplier's details				
Supplier		Importer		
ETİ MADEN İŞLETMELERİ GENEL MÜDÜRLÜĞ	Ü	ETIMINE USA,		
Kızılırmak Mahallesi 1443. Cadde No:5			ck Ave Suite 902	2
Çukurambar-Çankaya Zipcode: 06530		Hackensack, N Tel: +1 (201) 4		1 (201) 462-1500
Ankara – TÜRKİYE				www.etimineusa.com
Tel: +90 312 294 20 00 – Fax: +90 312 230 71 84	ļ.			
info@etimaden.gov.tr www.etimaden.gov.tr				
1.5. Emergency phone number				
1.5. Energency phone number				
CHEMTREC 1-800-262-8200/ (703) 741-5500				
SECTION 2: Hazard identification				
2.1. Classification of the substance or mix	ture			
Not classified Adverse physicochemical, human health and : environmental effects		this product does not		articular risk, provided it is handled
		0 1	, g	.,
2.2. GHS Label elements, including precau	itionary stateme	nts		
Labelling according to the United Nations GHS				
Hazard pictograms (GHS UN) :				
2.2 Other hererde which do not recult in a	lassification			
2.3. Other hazards which do not result in o Other hazards not contributing to the : Gra		an inorganic substan	ce and does no	t meet the criteria for PBT or
	B substance.	an morganic substan		
SECTION 3: Composition/information on i	naredients			
3.1. Substances	ingreatents			
	no-constituent			
	emanite			
	8-33-8			
	'-854-2 aium barata diaglaiu	um hexaborate pental	vdroto	
Substance identification codes: See section 1.1	cium porate, dicalci	um nexaporate pentar	iyurate	
Name	Product identit	fier	%	Classification according to the United Nations GHS
Colemanite	(CAS-No.) 1318-33-	8	≥ 58	Not classified
Calcite	(CAS-No.) 1317-65-	3	≤ 20	Not classified
Clay			≤ 10	Not classified
			-	
Dolomite	(CAS-No.) 16389-88	5-1	≤8	Not classified
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3.2. Mixtures Not applicable

SECTION 4: First-aid measures	
4.1. Description of necessary first-a First-aid measures after inhalation	id measures : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
	: Rinse eyes with water as a precaution.
First-aid measures after eye contact First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
0	
4.2. Most important symptoms/effect No additional information available	ris, acute and delayed
	l attention and special treatment needed, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable extinguishing media	Webserse Dranuda Free
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising from th Hazardous decomposition products in case of fin	ie chemical
5.3. Special protective actions for fi	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing
	apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. 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 conta	ainment 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	
74 Descentions for sofe handling	
7.1. 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
Precautions for safe handling Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Precautions for safe handling	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Storage conditions	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Storage conditions SECTION 8: Exposure controls/pers	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Storage conditions SECTION 8: Exposure controls/pers	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool. Onal protection
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool. Onal protection
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclusion Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering control	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool. Onal protection
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclusion Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Environmental exposure controls	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool. Onal protection Is Ensure good ventilation of the work station. Avoid release to the environment.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclusion Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Environmental exposure controls	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool. onal protection Is Ensure good ventilation of the work station.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclusion Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures, Hand protection	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool. onal protection Is Ensure good ventilation of the work station. Avoid release to the environment. such as personal protective equipment (PPE) Protective gloves
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclusion Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures, Hand protection Eye protection	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool. Onal protection Is Ensure good ventilation of the work station. Avoid release to the environment. Such as personal protective equipment (PPE) Protective gloves Safety glasses
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclusion Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures, Hand protection	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iuding any incompatibilities Store in a well-ventilated place. Keep cool. onal protection Is Ensure good ventilation of the work station. Avoid release to the environment. such as personal protective equipment (PPE) Protective gloves



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8.4. Exposure limit values for the other components No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical prop	
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
Auto-ignition temperature	: Non flammable
Decomposition temperature	: When heated above 105 C it looses its hydrate water
рН	: 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: Low solubility
Particle size	: 2-4 mm
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

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
The prod	uct is non-reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability
Stable un	der normal conditions.
10.3.	Possibility of hazardous reactions
No dange	rous reactions known under normal conditions of use.
10.4.	Conditions to avoid
	ler recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
No additio	onal information available



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Hazardous decomposition products 10.6.

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

SECTION 11: Toxicological informat	
11.1. Information on toxicological eff	
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
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
GRANULAR COLEMANITE (1318-33-8)	
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 (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

12.2. Persistence and degradability	
GRANULAR COLEMANITE (1318-33-8)	
Persistence and degradability	Boron is naturally occurring and ubiquitous in the environment.
12.3. Bioaccumulative potential	
GRANULAR COLEMANITE (1318-33-8)	
Bioaccumulative potential	Boron is a naturally occurring element. Boron does not accumulate up the food chain. It is not expected to bioconcentrate in fish.
12.4. Mobility in soil	
GRANULAR COLEMANITE (1318-33-8)	
Mobility in soil	Colemanite is moderately soluble in water and will leach through the soil at very slow rate.
12.5. Other adverse effects	
Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.



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UN RTDG	IMDG	ΙΑΤΑ		
4.1. UN number				
Not regulated for transport	Not 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	14.6. Special precautions for user			
- UN RTDG No data available - IMDG No data available - IATA No data available 14.7. Transport in bulk according to II	10 instruments			
Not applicable				

SECTION 15: Regulatory information
 Safety, health and environmental regulations specific for the product in question

 bry reference
 : Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
 15.1. Regulatory reference Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian NDSL (Non-Domestic Substances List) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SECTION 16: Other informat Issue date Revision date	: 01/01/2016 : 03/01/2021			
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". CAS registry system to include CAS number of 1318-33-8. (January, 2018; Rev. No: 01)	
		Added	This SDS was updated to include 'Fertilizer and Formulation of Fertilizer' uses under Section 1.2. (February, 2019; Rev. No: 01.1)	



Safety Data Sheet

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

Issue date:01/01/2016 Revision date: 03/01/2021 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 LC50 - Median lethal concentration IOELV - Indicative Occupational Exposure Limit Value 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 Training advice 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 Other information 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

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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.

applicable.