

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

Issue date:01/01/2020 Revision date: 01/11/2021

Version: 00.1

:

Issue date	.01/01/2020 Revision date. 01/11/2021 . Version. 00.1
SECTION 1: Identification	
1.1. GHS Product identifier	. Minture
Product form	: Mixture
Trade name	: ETİ-KDot
Product group	: Trade product
1.2. Other means of identification	
Other means of identification	: Potassium added Disodium octaborate tetrahydrate
1.3. Recommended use of the chemic Jse of the substance/mixture	cal and restrictions on use : Fertilizers
Recommended uses and restrictions	: Not restricted
1.4.Supplier's detailsSupplierETİ MADEN İŞLETMELERİ GENEL MÜDÜRLÜĞKızılırmak Mahallesi 1443. Cadde No:5 06530Çukurambar-ÇankayaAnkara - TÜRKİYET +90 312 294 20 00 - F +90 312 230 71 84info@etimaden.gov.tr1.5.Emergency phone number+90 312 294 20 00	;Ü
SECTION 2: Hazard identification 2.1. Classification of the substance of	or mixture
Classification according to the United Nations	GHS
	lation method
Reproductive toxicity, Category 2 H361d Calcul	lation method
Full text of H statements : see section 16	
Adverse physicochemical, human health and environmental effects	: Suspected of damaging the unborn child, Harmful if swallowed.
2.2. GHS Label elements, including p	recautionary statements
Labelling according to the United Nations GHS Hazard pictograms (GHS UN)	
Signal word (GHS UN)	: Warning
Hazardous ingredients	: Disodium octaborate tetrahydrate
Hazard statements (GHS UN)	<ul> <li>H303 - May be harmful if swallowed</li> <li>H361d - Suspected of damaging the unborn child</li> </ul>
Precautionary statements (GHS UN)	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/</li> <li>P312 - Call a POISON CENTER/doctor/ if you feel unwell.</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention.</li> <li>P405 - Store locked up.</li> </ul>
2.3. Other hazards which do not resu	It in classification
Other hazards not contributing to the classification	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
SECTION 3: Composition/information 3.1. Substances Not applicable	n on ingredients

Not applicable

## Safety Data Sheet

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

3.2. Mixtures			
Name	Product identifier		Classification according to the United Nations GHS
Disodium octaborate tetrahydrate	(CAS-No.) 12280-03-4	≤ 98.09	Acute Tox. 5 (Oral), H303 Repr. 2, H361d
potassium chloride	(CAS-No.) 7447-40-7	≥ 1.91	Not classified

Full text of H-statements: see section 16

SECTION 4: First-aid measures		
4.1. Description of necessary first-aid	Imeasures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if yo feel unwell.	
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	: Rinse mouth. Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms/effects		
No additional information available		
4.3. Indication of immediate medical a	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		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective actions for fire		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release measu	Ires	
	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area.	
512 For emergency responders		
6.1.2. For emergency responders Protective equipment	. Do not attempt to take action without suitable protective equipment. For further information	
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".	
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## Safety Data Sheet

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

Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures	s, 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 inadequate ventilation] wear respiratory protection.
Personal protective equipment symbol(s)	



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

<b>SECTION 9: Physical and chemical p</b>	roperties
9.1. Basic physical and chemical pro	perties
Physical state	: Solid
Molecular mass	: 412.5 g/mol
Colour	: white.
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: 815 °C
Freezing point	: Not applicable
Boiling point	: Not available
Flammability (solid, gas)	: Non flammable.
Explosive limits	: Not applicable
	Not applicable
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
рН	: 8.5 @ 20°C
pH solution	: 1%
Viscosity, kinematic (calculated value) (40 °C)	: Not applicable
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Negligible @ 20°C
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1.87 Type: 'relative density' Temp.: 22 °C
Relative vapour density at 20 °C	: Not applicable
Relative density of saturated gas/air mixture	: 1874 kg/m <sup>3</sup> Type: 'density' Temp.: 22 °C
Solubility	: Water: 9.7 % @ 20°C; 27.4 @ 40°C
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle specific surface area	: Not available
0.2 Data relevant with regard to phy	sical bazard alaccos (aunnlemental)

### 9.2. Data relevant with regard to physical hazard classes (supplemental) No additional information available 9.2.

## Safety Data Sheet

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

SECTI	ON 10: Stability and reactivity		
10.1.	Reactivity		
The prod	luct is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable ur	nder normal conditions.		
10.3.	Possibility of hazardous reactions		
No dang	erous 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 additi	ional 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 i	nformation	
11.1. Information on toxicolo	gical effects	
Acute toxicity (oral)	: May be harmful if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
ATE UN (oral)	2548.68 mg/kg bodyweight	

Disodium octaborate tetrahydrate (12280-03-4	)		
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:FIFRA (40 CFR 163)		
potassium chloride (7447-40-7)			
LD50 oral rat	≈ 3020 mg/kg bodyweight Animal: rat, Animal sex: female		
Skin corrosion/irritation	: Not classified		
	pH: 8.5 @ 20°C		
Serious eye damage/irritation	: Not classified		
	pH: 8.5 @ 20°C		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
potassium chloride (7447-40-7)			
NOAEL (chronic, oral, animal/male, 2 years)	≈ 1820 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: toxicity (migrated information)		
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: Not classified		
potassium chloride (7447-40-7)			
NOAEL (oral, rat, 90 days)	≈ 1820 mg/kg bodyweight Animal: rat, Animal sex: male		
Aspiration hazard	: Not classified		
ETİ-KDot			
Viscosity, kinematic	Not applicable		

<b>SECTION 12: Ecological information</b>	
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

## Safety Data Sheet

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

Disodium octaborate tetrahydrate (1228	Disodium octaborate tetrahydrate (12280-03-4)		
LC50 - Fish [1]	74 mg/l Test organisms (species): Limanda limanda		
LC50 - Fish [2]	79.7 mg/l Test organisms (species): Pimephales promelas		
EC50 72h - Algae [1]	66 mg/l Test organisms (species): Phaeodactylum tricornutum		
EC50 72h - Algae [2]	54 mg/l Test organisms (species): Phaeodactylum tricornutum		
NOEC chronic fish	6.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'		
potassium chloride (7447-40-7)			
LC50 - Fish [1]	880 mg/l Test organisms (species): Pimephales promelas		
EC50 - Other aquatic organisms [1]	440 – 880 mg/l Test organisms (species): other:see below		
EC50 - Other aquatic organisms [2]	580 – 670 mg/l Test organisms (species): other:see below		
EC50 72h - Algae [1]	<ul> <li>&gt; 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)</li> </ul>		
12.2. Persistence and degradability			
ETİ-KDot			
Persistence and degradability	Boron is naturally occurring and ubiquitous in the environment. Disodium octaborate tetrahydrate decomposes in the environment to natural borate.		
Disodium octaborate tetrahydrate (12280-03-4)			
Persistence and degradability	Boron is naturally occurring and ubiquitous in the environment. Disodium octaborate tetrahydrate decomposes in the environment to natural borate.		
12.3. Bioaccumulative potential			
ETİ-KDot			
Bioaccumulative potential	Not bioaccumulative.		
Disodium octaborate tetrahydrate (12280-03-4)			
Bioaccumulative potential	Not bioaccumulative.		
12.4. Mobility in soil			
ETI-KDot			
Mobility in soil	This product is soluble in water and is leachable through normal soil.		
Disodium octaborate tetrahydrate (12280-03-4)			
Mobility in soil	This product is soluble in water and is leachable through normal soil.		
12.5. Other adverse effects			
Ozone	: Not classified : No additional information available		
Other adverse effects			

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

### SECTION 14: Transport information In accordance with IMDG / IATA / UN RTDG

UN RTDG	IMDG	ΙΑΤΑ
14.1. UN number		
Not regulated for transport		

### Safety Data Sheet

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

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				
AAC Createl recording for your				

### 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 IMO instruments Not applicable

<b>SECTION 15: Regulatory in</b>	formation
15.1. Safety, health and env	rironmental regulations specific for the product in question
Regulatory reference	<ul> <li>Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the Canadian DSL (Domestic Substances List) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China).</li> </ul>

Issue date Revision date	: 01/01/2020 : 01/11/2021		
Section	Changed item	Change	Comments
		Modified	This SDS has been compiled for the first time in accordance with the GHS (Rev.6) (2015)-Guidance on the Compilation of Safety data Sheets.(Jan,2020; Rev No:00)

Safety Data Sheet

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

Abbreviations and acronyms	: CAS-No Chemical Abstract Service number
	ATE - Acute Toxicity Estimate
	BCF - Bioconcentration factor
	BLV - Biological limit value
	CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
	DMEL - Derived Minimal Effect level
	DNEL - Derived-No Effect Level
	EC-No European Community number
	EC50 - Median effective concentration
	ED - Endocrine disrupting properties
	EN - European Standard
	IMDG - International Maritime Dangerous Goods
	IATA - International Air Transport Association
	IARC - International Agency for Research on Cancer
	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
	NOACE - 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
	SDS - Safety Data Sheet
	TRGS - Technical Rules for Hazardous Substances
	vPvB - Very Persistent and Very Bioaccumulative
Testates a detail	WGK - Water Hazard Class
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the
Other information	: 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.

Full text of H-statements & Precautionary statements (GHS UN):		
H303	May be harmful if swallowed	
H361d	Suspected of damaging the unborn child	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/	
P312	Call a POISON CENTER/doctor/ if you feel unwell.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P405	Store locked up.	

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.