

Safety Data Sheet

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

Issue date:01/11/2020 Revision date: 01/11/2021 : Version: 00.1

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture

Trade name : Eti-KFertB15

Product group : Trade product

1.2. Other means of identification

Other means of identification : Potassium added Disodium tetraborate pentahydrate

K-REACH Registration number of Disodium tetraborate pentahydrate: 04-1809-02019

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Fertilizers
Recommended uses and restrictions : Not restricted

1.4. Supplier's details

Supplier

ETİ MADEN İŞLETMELERİ GENEL MÜDÜRLÜĞÜ Kızılırmak Mahallesi 1443. Cadde No:5 06530

Çukurambar-Çankaya Ankara - TÜRKİYE

T +90 312 294 20 00 - F +90 312 230 71 84 <u>info@etimaden.gov.tr</u> - <u>www.etimaden.gov.tr</u>

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

Acute toxicity (oral), Category 5 H303 Calculation method Serious eye damage/eye irritation, Category 2 H319 Calculation method Reproductive toxicity, Category 2 H361d Calculation 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, Causes serious eye

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)





Signal word (GHS UN) : Warning

Hazardous ingredients : Disodium tetraborate pentahydrate
Hazard statements (GHS UN) : H303 - May be harmful if swallowed
H319 - Causes serious eye irritation

H361d - Suspected of damaging the unborn child

Precautionary statements (GHS UN) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash ... thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection/....

P312 - Call a POISON CENTER/doctor/... if you feel unwell.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - IF exposed or concerned: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

P405 - Store locked up.

2.3. Other hazards which do not result 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.

02/11/2021 EN (English) 1/8

Safety Data Sheet

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

SECTION 3: Composition/information on ingredients

Substances

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	Classification according to the United Nations GHS
Disodium tetraborate pentahydrate	(CAS-No.) 12179-04-03	< 98.09	Acute Tox. 5 (Oral), H303 Eye Irrit. 2A, H319 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

Description of necessary first-aid measures

IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you First-aid measures general

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 cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

Most important symptoms/effects, acute and delayed

Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media 5.1.

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.

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. Avoid contact with skin and eyes.

6.1.2. For emergency responders

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

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

Environmental precautions 6.2.

Avoid release to the environment.

Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up Mechanically recover the product. Notify authorities if product enters sewers or public waters.

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

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Wear personal protective

equipment. Avoid contact with skin and eyes.

: 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

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

02/11/2021 EN (English) 2/8

Safety Data Sheet

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

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

Environmental exposure controls : Avoid release to the environment.

8.3. 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 inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s)



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 properties

Physical state : Solid

Molecular mass : 291.35 g/mol Colour : white.

Odour : Odourless.

Odour threshold : Not available Melting point : 741 °C

Freezing point : Not applicable
Boiling point : 1575 °C

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 : Not applicable

Decomposition temperature : Not available

pH : 9.2 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 : 1.81 @ 20 C

Relative vapour density at 20 °C : Not applicable

Solubility : Water: 3.7% @ 20°C; 51.2% @ 100°C

Particle size : +1.180 mm / -0.075 mm
Particle size distribution : 4 % max / 5 % max

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

02/11/2021 EN (English) 3/8

Safety Data Sheet

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

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

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological 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 tetraborate pentahydrate (12179-04-03)

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: 9.2

Serious eye damage/irritation : Causes serious eye irritation.

pH: 9.2

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

Eti-KFertB15

Viscosity, kinematic Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life.

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

(acute)

02/11/2021 EN (English) 4/8

Safety Data Sheet

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

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

(chronic)

()			
Disodium tetraborate pentahydrate (121	79-04-03)		
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]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
12.2. Persistence and degradability			
Eti-KFertB15			
Persistence and degradability	Boron is naturally occurring and ubiquitous in the environment. Disodium tetraborate pentahydrate decomposes in the environment to natural borate.		
Disodium tetraborate pentahydrate (12179-04-03)			
Persistence and degradability	Boron is naturally occurring and ubiquitous in the environment. Disodium tetraborate pentahydrate decomposes in the environment to natural borate.		
12.3. Bioaccumulative potential			
Eti-KFertB15			
Bioaccumulative potential	Not bioaccumulative.		
Disodium tetraborate pentahydrate (121	Disodium tetraborate pentahydrate (12179-04-03)		
Bioaccumulative potential	Not bioaccumulative.		
12.4. Mobility in soil			
Eti-KFertB15			
Mobility in soil	The product is soluble in water and is leachable through normal soil.		
Disodium tetraborate pentahydrate (12179-04-03)			
Mobility in soil	The 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

02/11/2021 EN (English) 5/8

Safety Data Sheet

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

UN RTDG	IMDG	IATA	
14.1. UN number			
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			

Special precautions for user

- UN RTDG

No data available

- IMDG

No data available

- IATA

No data available

Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

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

Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances).

SECTION 16: Other information

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

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.(November, 2020/Rev.No:00)

02/11/2021 EN (English) 6/8

Safety Data Sheet

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

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 ED - Endocrine disrupting properties

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

applicable.

: 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

Training advice

Other information

Full text of H-statements & Precautionary statements (GHS UN):	
H303	May be harmful if swallowed
H319	Causes serious eye irritation
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.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/

02/11/2021 EN (English) 7/8

Safety Data Sheet

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

P312	Call a POISON CENTER/doctor/ if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P337+P313	If eye irritation persists: 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.

02/11/2021 EN (English) 8/8