

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 08.08.2022 Version 2

TEKKİM

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Catalog No. TK.150441.00000
Product Name Potassium Chlorate
Cas no 3811-04-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use as a laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Oxidizing solids, Category 1
Acute toxicity, Oral, Category 4
Acute toxicity, By inhalation, Category 4
Long (chronic) aquatic hazard, Category 2

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H271 May cause fire or explosion; strong oxidizer.
H302 + H332 Harmful if swallowed or if inhaled.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P220 Keep/Store away from clothing /.../combustible materials.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.

Intervention

P301+P312 IF SWALLOWED: Call 114 POISON CENTER or doctor/physician if you feel unwell.
P304+P340 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing.



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

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SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

3.1 Maddeler

EC No	223-289-7
Molar mass	122.55 g/mol
Cas No	3811-04-9
Concentration	(<= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

<i>General information</i>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<i>Following inhalation</i>	Remove to fresh air. Call a doctor. If breathing stops: administer oral or mechanical respiration, with oxygen if necessary.
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	Rinse immediately carefully and thoroughly with eye-bath or water..
<i>Following ingestion</i>	Give up to two glasses of water. Get medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

May form free in case of fire: Hydrogen chloride. It has a fire-increasing feature depending on oxygen. Avoid shock and friction. It is not flammable. All-round fire can release dangerous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus..

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust..

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information



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Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Pay attention to the precautions on the label. Work with the title. Do not inhale the substance. Avoid the formation of dust.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store only together or separately with other oxidizing agents and away from sources of ignition and heat. Due to their oxidation potential, these products considerably increase the burning rate of combustible materials or cause them to ignite in any contact with these materials.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Safety glasses

Hand protection

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Protective chlothing.

Respiratory protection

Required when dusts occur.

Recommended Filter type: Filter B-(P2)

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties



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Physical state	Solid
Colour	White
Odour	Odorless
Odour threshold	Not applicable.
pH value	5.0 - 6.5 70 g/l 20 °C
Melting point/freezing point	356 °C
Freezing point	No information.
Initial boiling point and boiling range	400 °C
Flash point	Not applicable.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	No information.
Vapour density	No information.
Density	2.32 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	70 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	> 400 °C
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	The substance or mixture is classified as oxidizing with subcategory 1.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Arsenic, resins, charcoal, powdered metals, sulfuric acid, nitrates, tannin, zinc oxide, alcohols, organic combustibles, sulfides, hydrocarbons, ammonium compounds, reducing compounds, phosphorus, hydrides, fluorine, alkali metals, cyanides, alkali amides There is a risk of explosion with sulfur, potassium dichromate, powdered aluminum, germanium, potassium, copper compounds, powdered magnesium, nitric acid, titanium, sugars, organic substances. It gives exothermic reaction with ammonia, calcium silicide, nitrides, phosphides, chromium.

There is a risk of explosion or formation of flammable gases or vapors with sulfur dioxide, hydrogen iodide.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



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Acute oral toxicity
LD50 Rat: 1,870 mg/kg
(RTECS)
LC50 Inhalation - Rat - male and female - 4 h - > 5.1 mg/l
(OECD Test Guideline 436)
LD50 Dermal - Rat - male and female - > 2.000 mg/kg
(OECD Test Guideline 402)

11.2 Additional information

Absorption into the body causes the formation of methemoglobin, which, if it reaches sufficient concentration, causes cyanosis. It may take 2 to 4 hours or longer for symptoms to appear. Nausea, vomiting, diarrhea, bleeding.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish
flow test LC50 - Oncorhynchus mykiss (Rainbow trout) - > 1.000 mg/l - 96 h
(US-EPA)

Toxicity to daphnia and other aquatic invertebrates
flow test EC50 - Daphnia magna (Water flea) - > 1.000 mg/l - 48 h
(US-EPA))

Toxicity to algae (algae)
static test ErC50 - Nitzschia closterium - 1.9 mg/l - 72 h

Toxicity to bacteria
static test EC50 - activated sludge - > 1.000 mg/l - 3 h
(OECD Test Guideline 209)

12.2 Persistence and degradability

Oxygen free (anaerobic) - Exposure time 14 d
Result: 100% - quickly biodegradable
Notes: (ECHA)

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Forms toxic mixtures in water despite dilution measures.
Discharge into the environment should be prevented.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 1485	UN 1485	UN 1485	UN 1485	UN 1485
14.2 UN proper shipping name Potassium chlorate	Potassium chlorate	Potassium chlorate	Potassium chlorate	Potassium chlorate

14.3 Transport hazard class(es)



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14.4 Packing group

II

II

II

II

II

14.5 Environmental hazards

YES

YES

YES

YES

YES

No information available.

No information available.

No information available.

No information available.

No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H271 May cause fire or explosion; strong oxidizer.

H302 + H332 Harmful if swallowed or if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name:

Erhan DİLER

Certificate Number and Date:

11.29.03 & 11 Şubat 2020

Communication information:

05069903686



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