

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.150400.00000
Product Name Potassium bichromate
Cas no 7778-50-9

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 2
Acute toxicity, Oral, Category 3
Acute toxicity, By inhalation, Category 2
Acute toxicity, Dermal, Category 4
Skin Corrosion, Subcategory 1B
Serious eye damage, Category 1
Respiratory sensitization, Category 1
skin sensitizer, Category 1
Germ cell mutagenicity, Category 1B
Carcinogenicity, Category 1B
Reproductive toxicity, Category 1B
Specific Target Organ Toxicity – Single exposure, Category 3, Respiratory system
Specific target organ toxicity - repeated exposure, Inhalation, Category 1, Cardiovascular system
Short term (acute) aquatic hazard, Category 1
Long (chronic) aquatic hazard, Category 1

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)



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H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H340 May cause genetic damage.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure. (Cardiovascular system)
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)

Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

- P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.
P304+P340+P310 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing. Call the NATIONAL POISON ADVICE CENTER or doctor/physician immediately.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	231-906-6
Molar mass	294.19 g/mol
Cas No	7778-50-9
Concentration	(<= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation

Remove to fresh air. Call a doctor. If breathing stops: apply mechanical respiration immediately, with oxygen if necessary.

Following skin contact

Wash with plenty of water. Take off contaminated clothing.

Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.

Following ingestion

Give up to two glasses of water. Get medical help immediately. Do not try to neutralize. Only in exceptional cases; if medical assistance is not available within one hour, induce vomiting (only if the person is awake and fully conscious). After: activated charcoal (20 - 40g in 10% solution).

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

Carefully clean the wounds and wrap them with sterile cloth.

SECTION 5: Firefighting measures

5.1 Extinguishing media



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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

Depending on the oxygen, it has a fire-increasing feature. It is not flammable. All-round fire can release dangerous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

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

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

Keep container tightly closed in dry and well-ventilated places. Metal packaging should not be used.

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

Potassium dichromate (7778-50-9)

TR MAK Acceptable maximum concentration (MAK) 0.1 mg / m³

8.2 Exposure controls

Appropriate engineering controls

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



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Personal protection equipment

Eye/face protection

Fully fitting 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

Recommended Filter type: For solid and liquid particles of toxic and highly toxic elements
P 3 Filter (according to DIN 3181)

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Crystal
Colour	Orange
Odour	Odorless
Odour threshold	Not applicable.
pH value	3.6 100 g/l
Melting point/freezing point	398 °C
Freezing point	No information.
Initial boiling point and boiling range	> 500 °C 1.013 hP
Flash point	No information.
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	Not applicable.
Vapour density	No information.
Density	2.7 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	115 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	Not applicable.
Decomposition temperature	500 °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 2.



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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

There is a risk of explosion with iron, magnesium, hydrazine and its derivatives, hydroxylamine, ammonium nitrate, boron, acetic anhydride, oxidizing agents, reducing compounds, sulfuric acid, silicon.

It can give exothermic reaction with anhydrides, phosphides, sulphides, nitrites, fluorine.

There is a risk of explosion or formation of flammable gases or vapors with organic combustible materials, glycerol, powdered metals, hydrides, alkali compounds.

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: 90.5 mg/kg

OECD Test Guideline 401

Symptoms: If swallowed, there is a risk of perforation of the esophagus and stomach, with severe burning of the mouth and throat.

Acute inhalation toxicity

LC50 Rat: 0.083 mg/l; 4 hours; dust/mist

OECD Test Guideline 403

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: damage of respiratory tract

Aute dermal toxicity

LD50 Rabbit: > 2.000 mg/kg

OECD Test Guideline 402

Skin irritation

Rabbit

Result: Causes burns.

OECD Test Guideline 404

Causes burns.

Eye irritation

Causes serious eye damage.

Risk of blindness!

Rabbit

Result: irritating

Sensitivity

Sensitivity test (Magnusson and Kligman):

Result: positive

(IUCLID)

Part test: human

Result: positive

(IUCLID)

May cause breathing difficulties, asthma attacks or allergies if inhaled. Causes allergic skin reactions.

Germ cell mutagenicity

In vitro genotoxicity

Ames test

Escherichia coli/Salmonella typhimurium

Result: positive

CMR effects

Carcinogenicity:

It can cause cancer.

Mutagenicity:

It can cause genetic damage.

Teratogenicity (possibility to cause developmental disabilities):

May cause damage to the unborn child.

Reproductive toxicity:

It may harm reproduction.

Specific Target Organ Toxicity – Single exposure

May cause respiratory tract irritation.

Target Organs: Respiratory system

Specific Target Organ Toxicity – Repeated exposure

Causes damage to organs through prolonged or repeated exposure.



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11.2 Additional information

Chromium (VI) is highly toxic. It is absorbed through the lungs as well as in the gastrointestinal tract. Strong oxidants, chromates/bichromates cause burns to the skin and mucous membranes, ulcers and irritations in the upper respiratory tract. With the penetration of the substance into the wound, the healing of ulcers is reduced. In previously affected people, the substance causes immediate respiratory sensitization and allergic reactions (risk of pneumonia!) and damage to the nasal mucous membranes.

After ingestion, severe symptoms occur in the gastrointestinal tract, eg bloody diarrhea, vomiting (aspiration pneumonia!), spasms, circulatory collapse, unconsciousness, formation of methaemoglobin. Absorption may cause hepatic and renal damage.

Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 Brachydanio rerio (zebrafish): 58.5 mg/l; 96 h

Analytical observation: yes

Toxicity to daphnia and other aquatic invertebrates

Immobilization EC50 Daphnia magna (Water flea): 0.62 mg/l; 48 hours

OECD Test Guideline 202

Toxicity to algae (algae)

IC50 Chlorella vulgaris (freshwater algae): 0.16 - 0.59 mg/l; 96 h (IUCLID)

static test ErC50 Scenedesmus capricornutum (freshwater algae): 0.233 mg/l; 72 hours

Analytical observation: yes

Toxicity to bacteria

IC50 active waste: 30 mg/l; 3 hours

Analytical observation: yes

Toxicity to fish (Chronic toxicity)

NOEC Pimephales promelas (Carp juvenile): 1.1 mg/l; 7 g

Analytical observation: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NOEC Daphnia magna (Water flea): 18 mg/l; 21 g

Analytical observation: yes

12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

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

Discharge into environment must be avoided.

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



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ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 3086	UN 3086	UN 3086	UN 3086	UN 3086
14.2 UN proper shipping name TOXIC SOLID, OXIDIZING, N.O.S. (potassium dichromate)	TOXIC SOLID, OXIDIZING, N.O.S. (potassium dichromate)	TOXIC SOLID, OXIDIZING, N.O.S. (potassium dichromate)	TOXIC SOLID, OXIDIZING, N.O.S. (potassium dichromate)	TOXIC SOLID, OXIDIZING, N.O.S. (potassium dichromate)
14.3 Transport hazard class(es) 6.1(5.1)	6.1(5.1)	6.1(5.1)	6.1(5.1)	6.1(5.1)
				
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

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- H301 Toxic if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 Causes an allergic skin reaction.
- H330 Fatal if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H340 May cause genetic damage.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure. (Cardiovascular system)
- H410 Very toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

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Certificate Number and Date: 11.29.03 & 11 Şubat 2020
Communication information: 05069903686



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