

Safety Data Sheet

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

Revision Date: 15.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.200840.00000
Product Name Chromium (VI) Oxide
Cas no 1333-82-0

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

1.2.1. Relevant identified uses

Industrial use. 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
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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 3
Acute toxicity, By inhalation, Category 2
Acute toxicity, Dermal, Category 3
Skin Corrosion, Subcategory 1A
Serious eye damage, Category 1
Respiratory sensitization, Category 1
Skin sensitizer, Category 1
Germ cell mutagenicity, Category 1B
Carcinogenicity, Category 1A
Reproductive toxicity, Category 2
Specific Target Organ Toxicity – Single exposure, Category 3, Respiratory system
Specific Target Organ Toxicity – Repeated exposure, Category 1
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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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.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
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+P312 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	215-607-8
Molar mass	99.99 g/mol
Cas No	1333-82-0
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 eyelids with water for 10-15 minutes. See a doctor immediately.

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

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media



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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

Chromium oxides. It is not flammable. Depending on the oxygen output, it has a fire-increasing effect. 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. Store only together or separately with other oxidizing agents and away from sources of ignition and heat. These products considerably increase the burning rate of combustible materials due to their oxidation potential.

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



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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

Acid-resistant protective clothing

Respiratory protection

Required when dusts occur.

Recommended filter type :P 3 Filter (according to DIN 3181) for solid and liquid particles of harmful elements.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Dark red
Odour	Odorless
Odour threshold	Not applicable.
pH value	< 1 100 g/l 20 °C
Melting point/freezing point	197 °C 1,013 hPa
Freezing point	No information.
Initial boiling point and boiling range	No information.
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	Not applicable.
Vapour density	Not applicable.
Density	2.7 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	No information.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	Not applicable.
Decomposition temperature	No information.

Viscosity

Kinematic viscosity

No information.

Dynamic viscosity

No information.

Explosive properties

Not classified as explosive.

Oxidising properties


May cause fire or explosion; strong oxidizer.

SECTION 10: Stability and Reactivity

10.1 Reactivity



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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 organic combustible materials, alkali metals, ammonia, nonmetals, halogen-halogen compounds, hydrazine and its derivatives, nitrates, reducing compounds, nitric acid.

10.4 Conditions to avoid

Avoid heat and humidity.

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: 52 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

Acute toxicity estimate: 0.051 mg/l; dust/mist

Expert judgment

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

Acute dermal toxicity

Acute toxicity estimate: 300.1 mg/kg

Expert judgment

Skin irritation

Rabbit

Result: Abrasive

(ECHA)

Causes severe burns.

Eye irritation

Rabbit

Result: Causes burns.

(ECHA)

Causes serious eye damage.

Risk of blindness!

Sensitivity

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

Result: positive

(IUCLID)

Carcinogenicity

It is carcinogenic in animal experiments. (Source)

CMR effects

Carcinogenicity:

It can cause cancer. Positive finding in epidemiological studies in humans.

Mutagenicity:

It can cause genetic damage.

11.2 Additional information


The product has an extremely destructive effect on mucous membranes and tissues of the upper respiratory tract, eyes and skin. Cough, shortness of breath, headache, nausea.

SECTION 12: Ecological information

12.1 Toxicity



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Toxicity to fish

LC50 - Pimephales promelas (Carp juvenile) - 33.2 mg/l - 96 h (ECHA)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0.035 mg/l - 48 h (ECHA)

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

Biological effects:

Harmful effect due to pH change.






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 1463	UN 1463	UN 1463	UN 1463	UN 1463
14.2 UN proper shipping name CHROMIUM TRIOXIDE, ANHYDROUS	CHROMIUM TRIOXIDE, ANHYDROUS	CHROMIUM TRIOXIDE, ANHYDROUS	CHROMIUM TRIOXIDE, ANHYDROUS	CHROMIUM TRIOXIDE, ANHYDROUS
14.3 Transport hazard class(es) 5.1(6.1)	5.1(6.1)	5.1(6.1)	5.1(6.1)	5.1(6.1)
				
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:



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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.
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- 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.
- H361 Suspected of damaging fertility or the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H410 Very 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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