

Safety Data Sheet

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

Revision Date: 05.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.080220.00000
Product Name Hydrogen Peroxide %50
Cas no 7722-84-1

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

1.2.1. Relevant identified uses

Industrial uses. Scientific research and development. Use as 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)

Acute toxicity, Category 4, Oral
Skin irritation, Category 2
Serious eye damage, Category 1
Specific Target Organ Toxicity - Single exposure, Category 3, Respiratory system
Long (chronic) aquatic hazard, Category 4

For the full text of the H and EUH statements 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)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H413 May cause long lasting harmful effects to aquatic environment.

Precautionary Statements (SEA)



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+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66
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Prevention

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

Intervention

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYE CONTACT: Rinse cautiously with water for a few minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313 Get medical advice / contact your doctor.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	231-765-0
Molar mass	34.0147 g/mol
Cas No	7722-84-1
Concentration	($\geq 48\%$ - $< 52\%$)

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 casualty to fresh air and keep warm and at rest..
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	Please give up to two glasses of water. Get immediate medical attention.

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

It has a fire-enhancing feature due to oxygen. It is not flammable.

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..



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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.

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

Observe label precautions.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Protect from light. Metal packaging should not be used. Store away from flammable materials. Use valve cap and valve to ensure gas output and balance pressure.

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

Hydrogen peroxide (7722-84-1)

TR MAK	Acceptable maximum concentration (MAK)	1 mbp 1.4 mg / m ³
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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 : natural latex

Glove thickness : 0,60 mm

Break through time : >480minute

Splash contact :

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >60minute

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

Other skin protection



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Protective clothing.

Respiratory protection

Required when dusts are generated

Recommended filter type : NO filter

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Transparent
Odour	No information.
Odour threshold	No information.
pH value	2,0 - 4,0 20 °C
Melting point/freezing point	-40 °C
Freezing point	No information.
Initial boiling point and boiling range	110 °C
Flash point	Not applicable.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	No information.
Upper/lower flammability or explosive limits	No information.
Vapour pressure	20 hPa 20 °C
Vapour density	No information.
Density	1,19 - 1,20 g/cm3 20 °C
Relative density	No information.
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	>100°C

Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	It has an oxidizing feature.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

Sensitive to light.

10.3 Possibility of hazardous reactions

Hydrazine and its derivatives, hydrides, flammable substances, ether, anhydrides, oxidizing agents, organic substances, peroxy compounds, permanganates, organic solvent, organic nitro compounds, brass, alkali metals, alkali salts, alkaline earth metals, metals, metallic oxides, metallic salts, nonmetals, nonmetal oxides, aldehydes, alcohols, amines, ammonia, acids, strong alkalis, acetaldehyde, acetone, activated charcoal, anilines, lead, powdered metals, acetic acid, acetic anhydride, potassium, iodides, potassium permanganate, methanol, sodium fats, phosphorus, phosphorus oxides, conc. sulfuric acid, a risk of generating an explosion or combustible gases or vapors with heavy metals.

Reacts exothermic with alkali hydroxides, metals, nitric acid, zinc oxide, metallic salts.

10.4 Conditions to avoid

In case of warming.

10.5 Incompatible materials

Lead, bronze, iron, copper, brass, silver, metals, metal alloys

10.6 Hazardous decomposition products



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No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture

Acute oral toxicity

Symptoms: Irritation of mucous membranes in mouth, throat, esophagus and gastrointestinal tract.

Absorption

LD50 Rat: 1.193 - 1.270 mg / kg
(IUCLID)

Acute inhalation toxicity

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

Acute toxicity estimate:> 20 mg / l; 4 hrs; steam

Acute dermal toxicity

LD50 Rabbit:> 2,000 mg / kg
US-EPA

Skin irritation

After long-term exposure to the chemical: Causes skin burns.

The mixture causes skin irritation.

Eye irritation

conjunctivitis

The mixture causes serious eye damage.

Specific Target Organ Toxicity - Single exposure

The mixture may cause respiratory irritation.

Target Organs: Respiratory system

11.2 Additional information

Systemic effects:

Headache, dizziness, nausea, vomiting, diarrhea, insomnia, muscle twitching, convulsions, loss of consciousness, shock.

Handle in accordance with good industrial hygiene and safety practice.

Components

Hydrogen peroxide

Acute oral toxicity

Acute toxicity estimate: 500.1 mg / kg

Expert decision

Acute dermal toxicity

LD50 Rabbit:> 2,000 mg / kg
US-EPA

Repeated dose toxicity

Mouse

male

Oral

90 g

Diary

NOAEL: 26 mg/kg

LOAEL: 76 mg/kg

OECD Yönergesi 408

Subchronic toxicity

Rat

male and female

breathing (dust / fog / smoke)

28 g

Diary

NOAEL: 0,0029 mg/l

LOAEL: 0,0146 mg/l

OECD Test Talimatı 412

SECTION 12: Ecological information



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12.1 Toxicity

Mixture

Toxicity to algae (algae)

IC50 Chlorella vulgaris (freshwater algae): 2.5 mg / l; 72 hrs

OECD Test Guideline 201

Hydrogen peroxide

Toxicity to fish

semi-static test LC50 Pimephales promelas (Carp cub): 16.4 mg / l; 96 h

Analytical monitoring: yes

US-EPA

semi-static test NOEC Pimephales promelas (Carp cub): 5 mg / l; 96 h

Analytical monitoring: yes

US-EPA

Toxicity to daphnia and other aquatic invertebrates

semi-static test LC50 Daphnia pulex (Laurel pulex): 2,4 mg / l; 48 hrs

Analytical monitoring: yes

US-EPA

semi-static test NOEC Daphnia pulex (Laurel pulex): 1 mg / l; 48 hrs

Analytical monitoring: yes

US-EPA

Toxicity to algae (algae)

IC50 Pseudokirchneriella subcapitata (green algae): 5.7 mg / l; 72 hrs

(ECOTOX Database)

Growth rate NOEC Skeletonema costatum: 0.63 mg / l; 72 hrs

(External product safety sheet)

Toxicity to bacteria

static test EC50 active waste: 466 mg / l; 30 minutes

Analytical monitoring: yes

OECD Test Guideline OECD 209

12.2 Persistence and degradability

Biodegradation

> 99%; 0.5 hrs; oxygenated (aerobic)

(ECHA)

It can easily dissolve in nature.

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



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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 2014	UN 2014	UN 2014	UN 2014	UN 2014
14.2 UN proper shipping name				
HYDROGEN PEROXIDE, AQUEOUS solution with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)	HYDROGEN PEROXIDE, AQUEOUS solution with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)	HYDROGEN PEROXIDE, AQUEOUS solution with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)	HYDROGEN PEROXIDE, AQUEOUS solution with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)	HYDROGEN PEROXIDE, AQUEOUS solution with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)
14.3 Transport hazard class(es)				
5.1(8)	5.1(8)	5.1(8)	5.1(8)	5.1(8)
				
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

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H413 May cause long lasting harmful effects to aquatic environment.

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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