

Safety Data Sheet

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

Revision Date: 05.08.2022 Version 2



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

1.1 Product identifier

Catalog No. TK.060171.00000
Product Name Hydrogen Peroxide %30 (Perhydrol)
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.

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
Serious eye damage, Category 1
Long (chronic) aquatic hazard, Category 3

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.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (SEA)

Prevention
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear eye protection / face protection.

Intervention

P305 + P351 + P338 IF IN EYES: 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.



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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	231-765-0
Molar mass	34.0147 g/mol
Cas No	7722-84-1
Concentration	($\geq 25\%$ - $\leq 35\%$)

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-promoting feature due to oxygen. It is not flammable. Surrounding fire can release dangerous vapors.

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.

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

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

Protective chlothing.

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



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Physical state	Liquid
Colour	Colorless
Odour	Less pain
Odour threshold	No information.
pH value	$\leq 3,5$ 20 °C
Melting point/freezing point	-25,7 °C
Freezing point	No information.
Initial boiling point and boiling range	107 °C
Flash point	No information.
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	18 hPa 20 °C
Vapour density	No information.
Density	1,11 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: -1,57 - Bioaccumulation is not expected.
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	none

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

Acetaldehyde, acetone, activated charcoal, alcohols, formic acid, ammonia, flammable substances, vinyl acetate, organic substances, powdered metals, powder, hydrazine and derivatives, hydrides, ether, potassium, anilines, metallic salts, acetic acid, acetic anhydride, formaldehyde, furfuryl alcohol, fats, sodium, lithium, lithium aluminum hydride, organic solvents, magnesium, metallic oxides, methanol, reducing compounds are phosphorus oxides risk of explosion.

Alkali hydroxides, antimony sulfide, tin (II) chloride, sulfides, nitric acid (conc.), Ethanol, glycerol, potassium hydroxide, phosphorus, metallic oxides, sodium hydroxide, aldehydes, nonmetals, nonmetal oxides, strong alkalis, amines, acids oxidizing agents, alkali salts, alkali metals, alkaline earth metals, iodides, peroxy compounds, brass could exothermic reaction of the organic nitro compounds.

10.4 Conditions to avoid

In case of warming.

10.5 Incompatible materials

Metals.

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

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

Acute toxicity estimate: 1.667 mg / kg

Acute inhalation toxicity

Symptoms: Possible damages :, mucosal irritations

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

Skin irritation

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

Eye irritation

conjunctivitis

The mixture causes serious eye damage.

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 Directive 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 Guideline 412

SECTION 12: Ecological information

12.1 Toxicity



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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

static test EC50 active waste: > 1,000 mg / l; 3 hrs

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

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



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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)

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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.

H318 Causes serious eye damage.

H412 Harmful 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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