



Hidrojen Peroksit
SANAYİ VE TİCARET A.Ş.

**PEROXIDE SAFETY
DATA SHEET
(35% H₂O₂)**

DOKÜMAN NO: KAL-SPEC-005

SAYFA : 1/6

DEĞİŞİM ENDEKSİ:00

YAYIN TARİHİ : 11.03.2002

Safety Data Sheet

1. Identification of the substance

Identification of the product

Product name : Hydrogen peroxide solution 35%

Manufacturer / supplier identification

Company : Hidrojen Peroksit A.Ş. 600Evler Mahallesi Atatürk Caddesi No: 70
10290 Bandırma , Türkiye
Tel : +90 266 714 96 11-4
Fax : +90 266 714 96 10

2. Information on ingredients

Aqueous solution.

Synonyms

Perhydrol Hyperox35

Hazardous ingredients

Name according to EC Directives : Hydrogen Peroxide
Hazard symbols : O C
Cas No : 7724 -84 -1
Content : 35% Hydrogen Peroxide

3. Hazards identification

- Causes burns
- Contact with combustible material may cause fire

4. Physical and chemical properties

Form : liquid
Colour : colourless
Odour : slightly pungent



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Specific gravity : 1.130 @ 25°C
Boiling point : 110°C
Melting point : - 24°C
Vapour pressure : 20hPa@20°C

5. Health hazards

Eyes

- Causes burns
- Ulceration of cornea

Skin

- Causes whitening of skin
- Prolonged contact may cause redness and blister formation

Inhalation

- Causes irritation and inflammation in the nose and throat

Ingestion

- Not a systemic poison , if swallowed
- The sudden evolution of oxygen may cause injury by acute expansion of the oesophagus or stomach

6. First aid measures

- After inhalation : Fresh air. Summon doctor.
- After skin contact : Wash off plenty of water. Dab with polyethylene glycol 400. Immediately remove contaminated clothing and shoes promptly and thoroughly.
- After eye contact : Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately summon eye specialist.
- After swallowing : Make victim drink plenty of water (if necessary several litres), avoid vomiting (risk of perforation !). Immediately summon doctor. Do not attempt to neutralize.

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7. Fire ,explosion and reactivity data

Non flammable

- May cause fire and react violently on contact with combustibles and metals

Non combustible

Fire extinguishing agent

- Water (do not use foam or dry chemical extinguishers)

Special fire fighting procedure

- Flood tank or container with water
- If hydrogen peroxide is leaking , wear full protective clothing and self-contained breathing apparatus

Degree of fire and explosion hazard

- Strong oxidising agent
- Unstable
- Decomposition releases oxygen which may intensify fire – supports combustion
- Vapours are extremely irritating to eyes and skin

Conditions to avoid

Excessive heat / contamination of any kind

Generate heat and high pressures

Major contaminant that contributes to instability

Reducing agents / rust / dirt / organic materials / chemicals of pH above 4

Incompatibility

Iron and other heavy metals / galvanized iron / copper / copper alloys / rust / dirt / wood / paper and other combustibles

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Decomposition product

H₂O₂ + (heat/energy/contamination) → ½ O₂ + H₂O + heat

8. Fire- fighting measures

Suitable extinguishing media

Water

Extinguishing media not to be used

CO₂ , foam , powder

Special risks

Has a fire-promoting effect due to release of oxygen

Special protective equipment for fire fighting

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus

9. Stability and reactivity

Conditions to be avoided

Heating

Substances to be avoided

Alkali metals ,alkali salts , alkali hydroxides , alkaline earth metals , metals , metals in powder form , metallic oxides , metallic salts , nonmetals , nonmetallic oxides , aldehydes , alcohols , amines , ammonia,hydrazine and derivatives,hydrides, combustible substances,ethers,acids, anhydrides , oxidizing agent , organic substances , peroxi compounds , impurities/dust , potassium permanganate , organic solvents , organic nitro compounds , brass.

Hazardous decomposition products

Oxygen

Stabilizer

Disodium pyrophosphate



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Further information

Light – sensitive

Heat – sensitive

10. Safety and Handling

Safety

Wear appropriate safety equipment at all times :

- PVC apron
- Face shield / goggles
- Safety shoes / gum boots
- PVC gloves

Handling

- All personnel must be familiar with the fire fighting equipment , safety showers and first – aid cabinets
- All personnel must pay strict attention to and comply with all warning and safety signs
- Empty drums should be rinsed with water before discarding
- Handling systems should be of compatible materials like glass , stainless steel , aluminium or plastic and should exclude iron , brass , copper , monel metal or red lead sealing compounds

11. Storage

H₂O₂ should be stored in chemically , compatible storage containers @ 25°C in a well ventilated place , protected from light .

H₂O₂ should not be stored in an unvented container

Notes for common storage

Keep away from combustible materials and sources of ignition

Requirements for storage rooms and containers

Close containers in such a way to enable internal pressure to escape

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12. Spillage and disposal

- Wash with plenty of water and run to waste
- Otherwise absorb on an inert absorbent , transfer to container and arrange removal by disposal company
- Ventilate area to dispel residual vapour
- If material has entered drains , inform local authorities
- Inform fire services if flammable

13. Transport information

Transport over land ADR/RID and GGVS/GGVE (Germany)

GGVS/GGVE class: 5.1 number and letter: 1b

ADR/RID class : 5.1 number and letter: 1b

Sea transport IMDG

IMDG class : 5.1 UN No: 2014 Packaging group : II

Ems : 5.1 – 02 MFAG: 735

Correct technical name : Hydrogen Peroxide , aqueous solution-
Concentration of 50% by weight

Air transport ICAO–TI and IATA-DGR

ICAO/IATA class : 5.1 / 8 UN/ID-No.: 2014 Packaging group : II

Correct technical name : Hydrogen Peroxide , aqueous solution

14. Regulatory information

Labelling according to EC Directives

Symbol : C Corrosive
R-phrases : 34 Causes burns
S-phrases : 3-26-36/37/39-45 Keep in a cool place. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing , gloves and eye/face protection. In case of accident or if you feel unwell , seek medical advice immediately (show the label where possible).