# Material Safety Data

Product:HYDROGEN PEROXIDE 50% AND 35%Emergency(036) 251893- 24 HOURSTelephone Nos.:251894- Office Hours

251895 - "

#### **Product Information**

**Synonyms:** Hydrogen Peroxide 50% and

Hydrogen Peroxide 35%

Formula: H<sub>2</sub>O<sub>2</sub> Chemical Family:Peroxygen

Product Uses: It is a versatile chemical and is

used extensively as an oxidising agent for textile, pulp & paper, leather-hides, electronics, food, environmental, cosmetics and other

applications.

# **Precautionary Information**

**Health:** Liquid is corrosive to the eye and

skin, and direct eye contact may cause irreversible tissue damage, including blindness. Inhalation of mist or vapor will cause severe irritation of lungs/throat and nose that usually subsides after exposure ceases. Swallowing may produce

corrosion (burning) of the

gastrointestinal tract that may be

life-threatening.

Physical: Initiates combustion in other materials

by causing fire through release of

oxygen.

## **Ingredients**

H<sub>2</sub>O<sub>2</sub> -50% H<sub>2</sub>O<sub>2</sub> -35%

Material/Component:Hydrogen - PeroxidePercent :50%35%Hazard Class:OxidizerOxidizerMaterial/Component :WaterWaterPercent :50%65%

## Physical Data

H<sub>2</sub>O<sub>2</sub> -50% H<sub>2</sub>O<sub>2</sub> -35%

**Boiling Point:** 114 C(237 F) 108 C (226 F) **Appearance and state:** Clear, colorless liquid

Odorless

**Specific Gravity** 1.19 1.13 **@ 20 C/ 4 C:** 

% by Weight:

**pH (as is):** 1.0 - 3.0 2.0 - 3.0

# Fire, Explosion and Reactivity Data

Flash Point: Non - Flammable
Autoignition Non - Combustible

Temperature:

Extinguishing Media: Water / Water Fog

**Special Fire Fighting** Any tank or container surroun **Procedures:** -ded by fire should be flooded

with water for cooling. If H<sub>2</sub>O<sub>2</sub> is leaking, wear full protective clothing and certified ,self - contained breathing apparatus.

Degree of Fire and Decomposition of Hydrogen Perexplosion Hazard: -oxide releases oxygen which

may intensify fire. Hydrogen Peroxide itself is non-combu-

Heavy metals, Reducing-

-stible.

Conditions To Avoid: Excessive heat / contamination

of any kind.

Major Contaminants that contribute to

at contribute to agents, Rust , Dirt.

instability:

Incompatibility: Iron and other heavy metals,

Galvanized iron, Copper, Copp--er alloys, Rust, Dirt, Organics, Wood, Paper or Other combust-

-ibles.

## Routes of Exposure

**Eye Contact:** Extremely irritating corrosive

(rabbit)

Skin Contact:Mildly irritating (rabbit).Skin Absorption:No significant hazard(rabbit).Inhalation:TLV = 1 ppm TWA(PEL=1ppm

TWA 90% H<sub>2</sub>O<sub>2</sub>).

**Ingestion:-** H<sub>2</sub>O<sub>2</sub> \_ **50%:** Moderately hazardous(rat).

LD 50 is between 225 to

1200 mg/kg.

H<sub>2</sub>O<sub>2</sub> - **35%:** Moderately hazardous(rat).

LD 50=1193 mg/kg(male rat)

#### **Effects of Over Exposure**

H<sub>2</sub>O<sub>2</sub> - 50% & 35%: Severe irritant to eyes,

nose, throat, lungs and gastrointestinal tract. May cause irreversible tissue damage to the eyes.

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#### **Emergency And First Aid Procedures**

Eyes: Immediately flush with large amount

> of water for at least 15 minutes, lifting upper and lower lids intermittently. Check immediately

with eye specialist.

Wash with large amount of water. If Skin:

irritation persists, obtain medical

attention.

Remove to fresh air. Call a doctor. Inhalation: If swallowed, drink plenty of water Ingestion:

immediately to dilute. Do not induce

vomiting. See a doctor.

Procedure:

**Decontamination** Wash area with large amounts

of water.

Notes to Doctor: Hydrogen Peroxide, at this concen-

tration, is a strong oxidizer. Direct contact with eyes is sufficiently likely to cause corneal damage, even if washed away immediately, so that careful opthalmological evaluation is recommended. Because of the likelyhood of corrosive effects on the gastro-intestinal tract after ingestion, and the unlikelyhood of systemic effects, attempts evacuatingthe stomach via emesis induction or gastric lavage should be avoided. There is a remote possibility, however, that a naso - gastric or orogastric tube may be required for the reduction of severe distention due to gas formation.

**Special Protection** 

Ventilation: Provide general and local exhaust

ventilation as required.

#### Recommended Personnel Protective Equipment

Respiratory: For severe vapor or mist

> (concentration in excess of 10 ppm uses certified self - contained

breathing apparatus.

Eyes: Cup type chemical goggles and/or

full face mask.

Gloves: Liquid - proof rubber or neoprene

gloves

Rubber or neoprene footwear. Footwear:

**Emergency Accident** 

Precautions and Keep people away. Wear full

Procedure: protective clothing. Use water only

for fire.

# Precautionary Labels:



#### Storage and Handling

Water cup type chemical safety goggles, polyester or acrylic full cover clothing and rubber or neoprene gloves and shoes. Avoid excessive heat. Avoid contamination of any kind Contamination may cause decomposition and generation of oxygen gas which could result in high pressure and possible container rupture. Hydrogen peroxide should not be stored in an unvented container.

Never return unused hydrogen peroxide to original container. Empty drums should be rinsed in water before discarding. Utensils used for handling hydrogen peroxide should be made only of the following compatible materials: glass, stainless steel, aluminum or plastic. Storage should conform to conditions described in NFPA bulletin 43A (code for the storage of liquid and solid oxidizing materials). NFPA hazard class II oxidizer.

## Disposal, Spill or Procedures

Procedure for Release of spill:

Dilute with a large volume of water. Hold in a pond or diked area until the H2O2 decompo--ses. Dispose of according to method outlined below for waste disposal.

Waste Disposal Method:

An acceptable method of disposal is to dilute with a large amount of water and allow the hydrogen peroxide to decom--pose, followed by discharge into a suitable treatment system in accordance with all local and state environmental laws, rules, regulations, standards and other requirements, because accepta--ble method of disposal may vary by location and because regulatory requirements may change, the appropriate regulat--ory agencies should contacted prior to disposal.

**Transportation** 

**Precautions** Drums should be stacked properly

in transit, make sure to keep

drums in upright position.

**UN Number:** 2014

# Type of Packages

Polyethylene containers, meeting specifications

according to USA DOT code 34.



The information and suggestions contained herein are given purely as a guide. no responsibility either for the results derived from their adoption or for possible positions in apparent contrast with existing patent rights.