

SAFETY DATA SHEET

PEROX : HYDROGEN PEROXIDE 50%

IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name PEROX
Product Code 151
Product Use Sanitiser , bleaching agent in food processing, deodoriser.
Company Name Byre Chemicals
Address 3/43 Byre Avenue
 Somerton Park SA 5044
Telephone 08 8350 9228
Fax 08 8350 9334
Emergency phone no. 0412 426 697
Email info@byrechemicals.com.au

2. HAZARDS IDENTIFICATION

GHS Classification Classified as hazardous
 Dangerous Goods Class 5.1
 H271 May cause fire or explosion Category 1
 H272 May intensify fire : oxidiser Category 2
 H290 May be corrosive to metals Category 1
 H302 Harmful if swallowed Category 4
 H314 Causes severe skin burns and eye damage Category 1A
 H318 Causes serious eye damage Category 1
 H332 Harmful if inhaled Category 4
Signal Word DANGER
Hazard Statement Harmful if swallowed
 Causes severe burns and eye damage
Precautionary Statement
 Won't burn but can intensify fire
 Avoid contact with skin and eyes
 Wear eye protection and rubber gloves.
 Avoid inhaling mists. May cause respiratory irritation.
 If swallowed DO NOT induce vomiting. Give water or milk. Seek immediate medical help.
 Splashes on skin to be washed off immediately
 If splashed into eyes , remove contact lenses if present and wash with clean running water for 15 minutes. Seek medical attention immediately.
 Keep away from heat. Do not store near combustibles.
 Keep containers tightly closed and store in a lock-up facility.

Pictograms



3. COMPOSITION /INFORMATION ON INGREDIENTS

INGREDIENTS
 Hydrogen Peroxide
 Water

CAS.NO.
 7722-84-1

PROPORTION
 Less than 8 %
 Balance

BYRE CHEMICALS

PEROX : HYDROGEN PEROXIDE 50%

4. FIRST-AID MEASURES

INHALATION	Avoid generating mists. Remove casualty from contaminated area Keep patient sitting in upright position
INGESTION	If swallowed Do Not induce vomiting. Rinse mouth. Give large quantities of water. If breathing has stopped, give artificial respiration. Transport to hospital immediately.
SKIN	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. Wash clothing before re-use. If irritation persists, seek medical advice.
EYE	Possible loss of eyesight. Hold eyelids apart and flood the eye continuously with water for at least 10 minutes. Seek medical attention
FIRST AID	Initial focus is on the local action, signs of irritation of the respiratory tract such as coughing, burning behind the sternum, tears, burning in the eyes or nose. There is a risk of pulmonary oedema. Eye wash. Safety shower , hand wash basin
ADVICE TO DOCTOR	Possible loss of eyesight Superficial irritations and damage up to ulcerations and scarring develop on the skin

5. FIREFIGHTING MEASURES

Extinguishing Media	For SMALL fire , use flooding quantities of water. DO NOT use dry chemical, CO ₂ , foam or halogenated-type extinguishers For LARGE fire flood fire area with water from a protected position
Hazards from Combustion	Material supports combustion. Avoid storage with Reducing agents Involved in fire, it may decompose yielding oxygen accelerating intensity.
Precaution for Firefighter	Wear chemical suit. Wear breathing apparatus .Prevent run off from entering drains and waterways. HAZCHEM CODE : Class 5.1 Sub Risk 8

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE

Evacuate all unauthorised personnel. Do not breathe fumes or handle damaged containers.

Clean up spills immediately.

No smoking, naked lights or ignition sources .

Avoid contact with any organic material including fuel, solvents, sawdust, paper, cloth or other incompatible materials.

Major spills may be violently or explosively reactive

Avoid breathing dust or vapours and all contact with skin and eyes Wear full protective clothing

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Wear appropriate protective clothing Avoid inhalation of vapours and mists and skin or eye contact. Use only in a cool, well ventilated area away from light, heat, combustibles or flammables..

Provide adequate ventilation Keep containers sealed when not in use. Prevent the build up of mists and vapours in the work atmosphere. Do not use near ignition sources. Maintain high standards of personal hygiene ie washing hands prior to eating, drinking, smoking or using toilet facilities

CONDITIONS FOR SAFE STORAGE

Powerful oxidiser Contamination or heat may cause self accelerating exothermic decomposition with oxygen gas and steam release – this may generate dangerous pressures-steam explosion. Store in a cool, dry, well ventilated area away from sources of ignition

Reacts dangerously with rust, dirt, iron , copper, acids, metals and salts, organic material , strong acids and bases. Large quantities should be stored in a banded dangerous goods store. Prevent contact with aluminium, tin, zinc or galvanised iron .Store in original containers

PEROX : HYDROGEN PEROXIDE 50%**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure Limits	Hydrogen peroxide TWA 1 ppm (1.4 mg/m ³)
Engineering Controls	This substance is hazardous Adequate ventilation required so exposure limits are not exceeded.
Eye Protection	Safety glasses with side shields should be used.
Hand Protection	Wear gloves of impervious material such as neoprene, or nitrile rubber.
Hygiene Measures	Avoid contact with skin, eyes and clothing Wash hands after handling product. Keep away from foodstuffs.
Skin & Body Protection	Wear PVC apron Wear an approved respirator where handling large quantities is unavoidable. Provide for installation of emergency shower and eye bath

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless liquid
S.G.	1.11
Odour	Slight odour
pH	Not Available
Boiling Point	Above 100C
Vapour Pressure	10 mm@ 20C , 23 mm @ 30C
Flash Point	Not available
Decomposition Temp.	Above 40C
Auto Ignition Temp.	Not available
Solubility in Water	Miscible in all proportions.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling. Strong oxidising properties
Conditions to avoid	Excess heat exposure , sun. Danger of decomposition under influence of heat.
Incompatible materials	Impurities, decomposition catalysts, metal salts, alkalis, reducing agents, non ferrous heavy metal, aluminium, zinc, flammable materials, organic solvents.
Hazardous decomposition	May lead to self accelerated exothermic decomposition and the formation of oxygen, and steam.
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Oral LD ₅₀ (Rat) 50 - 100 mgm/kg Inhalation LC ₅₀ (Rat) 2.0 mg/lt 4 hour
Ingestion	Corrosive. Harmful if swallowed. May cause burns to mouth and throat, nausea, vomiting, abdominal pain and diarrhoea. Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring
Eyes	Corrosive. Causes severe burns which can result in permanent injury or blindness
Skin	Causes severe irritation, rapid drying, bleaching and if untreated burns
Inhalation	Harmful. Headache, vertigo, nausea. Health injuries may be delayed. Vapours may cause drowsiness and giddiness. Risk of pulmonary oedema.
Carcinogenic	No evidence of carcinogenic properties
Chronic Effects	Substance accumulation in the human body may occur and causes dental, liver, kidney, stomach and intestinal damage. Asthma –like symptoms may continue for months or years after exposure to material ceases.

PEROX : HYDROGEN PEROXIDE 50%**12. ECOLOGICAL INFORMATION**

Ecotoxicity	None assigned
Persistence/degradability	Low
Mobility in Soil	Low
Bioaccumulative Potential	Low

13. DISPOSAL CONSIDERATIONS

Spills & Disposals	Containers may still present a chemical hazard/danger when empty. Spills to be flooded with fresh water . Wear appropriate protective clothing
Disposal	Treat and neutralise at an approved plant. Decontaminate empty containers. Refer to Land Waste Management Authority in your State

14. TRANSPORT INFORMATION

Transport Information	This material is classified as Dangerous Goods . Poison Schedule S6
Proper Shipping Name	HYDROGEN PEROXIDE AQUEOUS SOLUTION 50%
UN.NO.	2014
Packaging Group	11
Hazchem Code	2P
DG Class	5.1
Subsidiary Risk	8

15. REGULATORY INFORMATION

Regulatory Information	Hydrogen Peroxide is found on the following Regulatory Lists. Australia Exposure Standards Australia Inventory of Chemical Substances AICS Classified as hazardous according to criteria of NOHSC Poisons Schedule S6
Hazard Category	Corrosive to skin
Risk Statement	Causes burns to eyes.
Safety Statement	Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. Wear suitable gloves and eye/face protection. In case of accident or if unwell, contact a doctor or Poisons Information Centre immediately.

16. OTHER INFORMATION

Preparer Signature	Technical Director
Contact	Telephone: 08 8350 9228 24 hour emergency number 0412 426 697

Every care is taken to ensure that the information printed hereon is true and accurate and that the contents are suitable for the purposes represented, but since the conditions of use are beyond the control of the manufacturers, they make no warranty, express or implied, and disclaim any liability in connection with the use of this product, whether used separately or in combination with any other substance.