



Safety Data Sheet Hydrogen Peroxide 3%)

Date : 23rd February 2015

1. Product and Company Identification

Trade name: Hydrogen Peroxide 3%

Product code: Not Applicable

Supplier Info:

KMG Ultra Pure Chemicals Pte. Ltd.

14 Tuas Ave 20

Singapore 638826

Tel: +65 68651982

Fax: +65 68621985

Recommended use: Use according to manufacturers' directions

Emergency contact

Mobile: +65 9741 5009

2. Hazard Identification

Classification of the substance or mixture :

Serious Eye Damage Category 1

Skin Corrosion/Irritation Category 1

GHS label elements :

Pictograms



Signal Word: DANGER!

Hazard Statements :

H315- Causes skin irritation

H318 Causes serious eye damage

Precautionary Statements :

Prevention:

P264

Wash clothing and PPE thoroughly after handling



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P280	Wear protective gloves/protective clothing/eye protection/face protection
P284	Wear respiratory protection
Response: P302 + P352 P305 + P351 + P338	IF on skin: wash with plenty of soap and water. If in eyes, Remove contact lenses, if present and easy to do, continue rinsing. Rinse cautiously for several minutes. Call a POISON CENTER or doctor/physician . If skin irritation occurs. Get medical advice/attention.
P310 P332+P313	Take off contaminated clothing and wash before use,
P362	
Storage: P405 P406	Store locked up Store in a corrosive resistant container with a resistant inner liner
Disposal	
P501	Dispose of content according to state law

3. Composition/Information on ingredients

Description:

Components	CAS No. Pre-Registration No	% weight
Hydrogen Peroxide	7722-84-1	3
Water	7732-18-5	97

4. First-Aid Measures

SWALLOWED

Immediately give a glass of water.

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

EYE

If this product comes in contact with the eyes:

Wash out immediately with fresh running water.

Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

Seek medical attention without delay; if pain persists or recurs seek medical attention.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.



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SKIN

If skin or hair contact occurs:

Flush skin and hair with running water (and soap if available).

Seek medical attention in event of irritation.

INHALED

If fumes, aerosols or combustion products are inhaled remove from contaminated area.

Other measures are usually unnecessary.

NOTES TO PHYSICIAN

Treat symptomatically.

5. Fire-fighting Measures

Extinguishing Media

There is no restriction on the type of extinguisher which may be used.

Use extinguishing media suitable for surrounding area.

Fire Fighting

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves in the event of a fire.

Prevent, by any means available, spillage from entering drains or water courses.

Use fire fighting procedures suitable for surrounding area.

Fire/Explosion Hazard

Non-combustible.

Not considered to be a significant fire risk.

Expansion or decomposition on heating may lead to violent rupture of containers.

Decomposes on heating and may produce toxic/ irritating fumes.

Fire IRE Incompatibility

None known.

6. Accidental Release Measures

Minor Spills

Clean up all spills immediately.

Avoid breathing vapours and contact with skin and eyes.

Control personal contact with the substance, by using protective equipment.

Contain and absorb spill with sand, earth, inert material or vermiculite.

Major Spills

Minor hazard.

Clear area of personnel.

Alert Fire Brigade and tell them location and nature of hazard.

Control personal contact with the substance, by using protective equipment as required.

Prevent spillage from entering drains or water ways.

Personal Protective Equipment advice is contained in Section 8 of the SDS.



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7. Handling and Storage

Procedure for Handling

Limit all unnecessary personal contact.
Wear protective clothing when risk of exposure occurs.
Use in a well-ventilated area.
When handling DO NOT eat, drink or smoke.

Suitable Container

Plastic container.

Storage Incompatibility

None known.

Storage Requirements

Protect from light.
Store in original containers.
Keep containers securely sealed.
Store in a cool, dry, well-ventilated area.
Store away from incompatible materials and foodstuff containers.

8. Exposure Controls and Personal Protection

EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m ³
Singapore Permissible Exposure Limits of Toxic Substances	HYDROGEN PEROXIDE 3%	1	1.4

The following materials had no OELs on our records
Water: CAS:7732- 18- 5

MATERIAL DATA

HYDROGEN PEROXIDE 3%:
Not available

HYDROGEN PEROXIDE:
for hydrogen peroxide

NOTE: Detector tubes for hydrogen peroxide, measuring in excess of 0.1 ppm, are available commercially.

Exposure at or below the TLV-TWA is thought to minimise irritation and bleaching of hair.

WATER:

No exposure limits set by NOHSC or ACGIH.

PERSONAL PROTECTION RESPIRATOR



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Type B Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

EYE

No special equipment for minor exposure i.e. when handling small quantities.
Safety glasses with side shields.

HANDS/FEET

Wear protective gloves

OTHER

No special equipment needed when handling small quantities.

OTHERWISE:

Overalls.

Barrier cream.

Eyewash unit.

ENGINEERING CONTROLS

None under normal operating conditions.

Personal protective equipment (PPE):



9. Physical and Chemical Properties

APPEARANCE

Clear, colourless liquid, mixes with water.

PHYSICAL PROPERTIES

Liquid.

Mixes with water.

State	Liquid	Molecular Weight	Not Applicable
Melting Range (°C)	Not Available	Viscosity	Not Available
Boiling Range (°C)	100 approx	Solubility in water (g/L)	Miscible
Flash Point (°C)	Not Applicable	pH (1% solution)	Not Available
Decomposition Temp (°C)	Not Available	pH (as supplied)	Not Available
Autoignition Temp (°C)	Not Available	Vapour Pressure (kPa)	Not Available
Upper Explosive Limit (%)	Not Applicable	Specific Gravity (water=1)	1 approx
Lower Explosive Limit (%)	Not Applicable	Relative Vapour Density (air=1)	Not Available
Volatile Component (%vol)	Not Available	Evaporation Rate	Not Available



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10. Stability and Reactivity

CONDITIONS CONTRIBUTING TO INSTABILITY

Presence of incompatible materials.

Product is considered stable.

Hazardous polymerisation will not occur.

For incompatible materials - refer to Section 7 - Handling and Storage.

11. Toxicological Information

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.

EYE

Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

Skin

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Inhaled

Not normally a hazard due to non-volatile nature of product.

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).

Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Chronic Health Effects

Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

Toxicity and Irritation



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Not available. Refer to individual constituents.

Carcinogen

Hydrogen Peroxide	International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs	Group	3
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Skin

Hydrogen Peroxide	GESAMP/EHS Composite List - GESAMP Hazard Profiles	D1: skin	3
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irritation/corrosion

12. Ecological Information

No data

Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
hydrogen peroxide	LOW	No Data Available	LOW	HIGH

13. Disposal Considerations

Recycle wherever possible.

Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).

Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

14. Transport Information

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

15. Regulatory Information

REGULATIONS

Regulations for ingredients

Hydrogen peroxide (CAS: 7722-84-1) is found on the following regulatory lists;

"GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO MARPOL 73/78 (Annex II)

- List of Noxious Liquid Substances Carried in

Bulk", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the

IARC Monographs", "International Air Transport



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Association (IATA) Dangerous Goods Regulations", "Singapore Arms and Explosives Act - Second Schedule Explosive Precursors",

"Singapore Permissible Exposure Limits of Toxic Substances"

No data for HYDROGEN PEROXIDE 3% (CW: 8706-36)

16. Other Information

Abbreviations and acronyms:

- **GHS**: Globally Harmonized System of Classification and Labeling of Chemicals
- **OSHA** : The Occupational Health & Safety Assessment Series (Singapore)

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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