Hydrogen peroxide 30 %
000000017647

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Hydrogen peroxide 30 %
SDS Number	:	000000017647
Product Use Description	:	Semiconductor Production
Manufacturer or supplier's details	:	CHEM-SUPPLY Pty Ltd 38-50 Bedford St. Gillman SA 5013, Australia
For more information call	:	+61 8 8440 2000 (Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	**Medical: 1-800-498-5701 or +1-303-389-1414**
	:	**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
	:	**CHEMTREC in Australia: +(61)-290372994**
	:	(24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the substance or mixture	:	Acute toxicity, Category 4, Oral Serious eye damage, Category 1 Skin corrosion, Category 1B

GHS Label elements, including precautionary statements

Symbol(s) :

Signal word	:	Danger
Hazard statements	:	May intensify fire; oxidizer. Harmful if swallowed.

Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**
Keep away from heat.
Keep/Store away from clothing/ combustible materials.
Take any precaution to avoid mixing with combustibles.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Wash contaminated clothing before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:
Store locked up.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

CAS-No. : 7722-84-1

Hazardous components

Chemical name	CAS-No.	Concentration

Hydrogen peroxide	7722-84-1	>= 25 - < 35%

4. FIRST AID MEASURES

General advice	:	First aider needs to protect himself. Do not leave the victim unattended. Immediately take off contaminated clothing and rinse body with plenty of water.
Inhalation	:	Call a physician if irritation develops or persists.
Skin contact	:	After contact with skin, wash immediately with plenty of water.
Eye contact	:	Protect unharmed eye. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	:	When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry powder
Specific hazards during firefighting	:	May intensify fire; oxidizer. Contact with combustible material may cause fire. In fires, the product supports combustion.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas.
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	:	HAZCHEM Code: 2P

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Evacuate personnel to safe areas.

Wear personal protective equipment. Unprotected persons must be kept away.
Avoid breathing vapours, mist or gas.
Do not get in eyes, on skin, or on clothing.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Should not be released into the environment.
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up : Do not pick up with the help of saw-dust or other combustible substances.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Dispose of promptly.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Open drum carefully as content may be under pressure.
The pressure in sealed containers can increase under the influence of heat.
Never return unused material to storage receptacle.
Use only clean equipment.
Protect from contamination.
Avoid breathing vapours, mist or gas.
Do not get in eyes, on skin, or on clothing.

Advice on protection against fire and explosion : In case of fire, emergency cooling with water spray should be available.
The product itself does not burn.
Keep away from combustible material.

Storage

Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.
Keep away from heat and sources of ignition.
Keep away from direct sunlight.
Store away from incompatible substances.

Materials to avoid : Powdered metals, Reducing agents, Contamination, Rust, Reactions with various metals., Reactions with organic substances., Reactions with combustible substances.,

Reactions with metals in powder form., As oxidising agent, attacks organic substances such as wood, paper, fats.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Hydrogen peroxide	7722-84-1	TWA : Time Weighted Average (TWA):	1 ppm 1.4 mg/m3	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)
		TWA : Time Weighted Average (TWA):	1 ppm 1.4 mg/m3	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Engineering measures

Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection : Impervious gloves
Gloves must be inspected prior to use.
Replace when worn.

Eye protection : Safety goggles

Skin and body protection : Impervious clothing

Hygiene measures : Take off all contaminated clothing immediately.
Remove and wash contaminated clothing before re-use.
Separate rooms are required for washing, showering and changing clothes.
Wash hands before breaks and at the end of workday.
When using do not eat or drink.

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid breathing vapours, mist or gas.
Do not get in eyes, on skin, or on clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	colourless
Odour	:	stinging
pH	:	2.0 - 4.0 at , 20 °C
Melting point/range	:	-26 °C
Boiling point/boiling range	:	Note: no data available
Flash point	:	Note: Not applicable
Evaporation rate	:	Note: no data available
Lower explosion limit	:	Note: Not applicable
Upper explosion limit	:	Note: Not applicable
Vapour pressure	:	93 hPa at 50 °C(122 °F) 18 hPa at 20 °C(68 °F)
Vapour density	:	Note: no data available
Density	:	ca. 1.11 g/cm3 at 20 °C

Water solubility	:	Note: completely miscible
Partition coefficient: n-octanol/water	:	Note: no data available
Ignition temperature	:	Note: Not applicable
Decomposition temperature	:	Note: No decomposition if used as directed.
Viscosity, dynamic	:	Note: no data available
Viscosity, kinematic	:	Note: no data available

10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under recommended storage conditions. May intensify fire; oxidizer.
Possibility of hazardous reactions	:	Heating above the decomposition temperature Reactions with light metals.
Conditions to avoid	:	Keep away from heat. Keep away from reducing agents. Keep away from combustible material. Protect from contamination.
Incompatible materials to avoid	:	Powdered metals Reducing agents Contamination Rust Reactions with various metals. Reactions with organic substances. Reactions with combustible substances. Reactions with metals in powder form. As oxidising agent, attacks organic substances such as wood, paper, fats.
Hazardous decomposition products	:	Oxygen

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50: 1,190 mg/kg Species: Rat Test substance: hydrogen peroxide, 35%
Acute inhalation toxicity	:	LC50: > 1.7 mg/l Exposure time: 4 h Species: Rat Test substance: hydrogen peroxide, 35% Note: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Acute dermal toxicity	:	LD50: 4,060 mg/kg Species: Rat Test substance: hydrogen peroxide, 35%
Sensitisation	:	Species: Guinea pig Classification: non-sensitizing

12. Ecological information

Toxicity

Toxicity to fish	:	LC50: 31.3 mg/l Exposure time: 24 h Species: Oncorhynchus mykiss (rainbow trout) Test substance: hydrogen peroxide, 35%
	:	LC50: 16.4 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) Test substance: hydrogen peroxide, 35%
Toxicity to daphnia and other aquatic invertebrates	:	EC50: 2.4 mg/l Exposure time: 48 h Species: Daphnia pulex (Water flea)

Test substance: hydrogen peroxide, 35%

: EC50: 7.7 mg/l
Exposure time: 24 h
Species: Daphnia magna (Water flea)
Test substance: hydrogen peroxide, 35%

Toxicity to algae : IC50: 2.5 mg/l
Exposure time: 72 h
Species: Algae
Test substance: hydrogen peroxide, 35%

Toxicity to bacteria : 11 mg/l
Exposure time: 17 h
Species: Pseudomonas putida
Test substance: hydrogen peroxide, 35%

13. DISPOSAL CONSIDERATIONS

Product : In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

UN/ID No.	:	UN 2014
Description of the goods	:	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Class	:	5.1
Packing group	:	II
Classification Code	:	OC1
Hazard Identification Number	:	58
Labels	:	5.1 (8)

IATA

UN/ID No.	:	UN 2014
Description of the goods	:	Hydrogen peroxide, aqueous solution
Class	:	5.1
Packing group	:	II

Labels	:	5.1 (8)
Packing instruction (cargo aircraft)	:	554
Packing instruction (passenger aircraft)	:	550
Packing instruction (passenger aircraft)	:	Y540

IMDG

UN/ID No.	:	UN 2014
Description of the goods	:	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Class	:	5.1
Packing group	:	II
Labels	:	5.1 (8)
EmS Number 1	:	F-H
EmS Number 2	:	S-Q
Marine pollutant	:	no

HAZCHEM Code: 2P

15. REGULATORY INFORMATION

National regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons	:	Schedule 6

Other international regulations

Notification status

US. Toxic Substances Control Act	:	On TSCA Inventory
Australia. Industrial Chemical (Notification and Assessment) Act	:	On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are on the Canadian DSL
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)	:	On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances	:	On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet:

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Dangerous Goods Code, No. 6 [National Road Transport Commission]
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by:
Honeywell Performance Materials and Technologies Product Stewardship Group

End of Safety Data Sheet