

MATERIAL SAFETY DATA SHEET

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TASMAN CHEMICALS PTY LTD

1-7 BELL GROVE, BRAESIDE, VICTORIA 3195 AUSTRALIA

PHONE: +61-3-9587 6777 FAX: +61-3-9587 5255 EMAIL: taschem@taschem.com.au WEBSITE: www.tasmanchemicals.com.au
EMERGENCY TELEPHONE NUMBER: 1 800 334 556

I. IDENTIFICATION

PRODUCT NAME:	HYDROGEN PEROXIDE 50%	UN NUMBER:	2014
SYNONYMS:		HAZCHEM CODE:	2P
D.G. CLASS:	5.1	POISON SCHEDULE:	5
INTENDED USE:	BLEACHING/SANITISING AGENT	PACKAGING GROUP:	II

STATEMENT OF HAZARDOUS NATURE: Hazardous according to criteria of Worksafe Australia

Physical Description/Properties

APPEARANCE:	CLEAR COLOURLESS LIQUID	FLASH POINT 0C	NON FLAMMABLE
VAPOUR PRESSURE (mm Hg):	10mm Hg at 20°C	SPECIFIC GRAVITY:	1.20
FLAMMABILITY LIMITS (%):	NONE ASSIGNED	SOLUBILITY IN WATER:	COMPLETE
BOILING POINT:	114°C		

Hazardous Ingredient

CHEMICAL ENTITY

HYDROGEN PEROXIDE

CAS NO

7722-84-1

PROPORTION

M

II. HEALTH HAZARD INFORMATION

H>60% M=10-60% L=<10%

Routes of Exposure:

SWALLOWED: CORROSIVE IF SWALLOWED. MAY BURN THE MOUTH, GULLET AND STOMACH. IF INGESTED (SWALLOWED), DECOMPOSITION MAY OCCUR IN THE STOMACH LEADING TO THE PRODUCTION OF OXYGEN GAS. THIS MAY CAUSE GASTRIC DISTENSION OF THE STOMACH. POSSIBILITY OF SOME BLEEDING OCCURRING.

EYE: CORROSIVE. MAY CAUSE DAMAGE TO THE CORNEA WHICH MAY AFFECT VISION IF IMMEDIATE FIRST AID ACTION IS NOT TAKEN. VAPOUR MAY CAUSE IRRITATION.

SKIN: CORROSIVE. MAY CAUSE DELAYED CHEMICAL BURNS. (IN SOME CASES), TRANSIENT WHITENING OF THE AFFECTED AREA MAY OCCUR.

INHALED: IRRITATING TO RESPIRATORY TRACT. POSSIBILITY OF DEVELOPMENT OF FLUID IN THE LUNGS WITH SEVERE EXPOSURE.

LC₅₀ (RATS – 4 HOURS) 2000mg/m₃.

LC_{Lo} (MICE) – 227 ppm.

OTHER HEALTH HAZARDS: TESTS FOR MUTAGENIC ACTIVITY IN BACTERIAL OR MAMMALIAN CELL CULTURES HAVE BEEN INCONCLUSIVE WITH POSITIVE RESULTS IN SOME STUDIES AND NEGATIVE RESULTS IN OTHERS. SIMILARLY TESTS FOR FOETAL EFFECTS IN ANIMAL SPECIES HAVE BEEN INCONCLUSIVE WITH POSITIVE RESULTS IN SOME STUDIES AND NEGATIVE IN OTHERS. TESTS IN ANIMALS DEMONSTRATE NO REPRODUCTIVE TOXICITY.

Emergency and First Aid Procedures:

SWALLOWED: IMMEDIATELY RINSE THE MOUTH OUT WITH WATER. GIVE WATER TO DRINK. **DO NOT** INDUCE VOMITING. SEEK MEDICAL ATTENTION WITHOUT DELAY.

EYE: IMMEDIATELY IRRIGATE THE EYE WITH PLENTY OF WATER. CONTINUE THE IRRIGATION FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION WITHOUT DELAY.

SKIN: WASH CONTAMINATED SKIN THOROUGHLY WITH WATER TO REMOVE ALL TRACES OF HYDROGEN PEROXIDE SOLUTION. **DO NOT** USE ANY LOCAL APPLICATIONS. REMOVE CONTAMINATED CLOTHING, SOAK IN WATER, THEN LAUNDRER BEFORE RE-USE. SEEK MEDICAL ATTENTION IF SIGNS OR SYMPTOMS SUCH AS REDNESS, SWELLING, BLISTERING OR IRRITATION DEVELOP OR PERSIST.

INHALED: REMOVE FROM THE SOURCE OF EXPOSURE. IF REQUIRED, SEEK MEDICAL ATTENTION.

FIRST AID FACILITIES: WHERE DECANTING IS CARRIED OUT OR SPLASHING MAY OCCUR, EYEWASH STATIONS AND SAFETY SHOWERS SHOULD BE READILY AVAILABLE.

Advice to Doctor:

WITH EYE CONTACT EXCLUDE CORNEAL ULCERATION – RECHECK UP TO ONE WEEK FOR DELAYED ULCERATION. REFER TO EYE SPECIALIST. PULMONARY OEDEMA MAY OCCUR ON INHALATION. INGESTION MAY RESULT IN INTERNAL BLEEDING. FOLLOWING INGESTION GASTRIC DISTENSION MAY OCCUR FROM RAPID OXYGEN RELEASE. INSERTION OF A GASTRIC TUBE MAY BE ADVISABLE. ENSURE SKIN IS THOROUGHLY IRRIGATED TO REMOVE ALL TRACES OF HYDROGEN PEROXIDE SOLUTION AND THUS AVOID ANY POSSIBLE REACTION WITH LOCALLY APPLIED MEDICATION. SUCH REACTIONS MIGHT PRODUCE HEAT AND LEAD TO FURTHER TISSUE DAMAGE.

III. PRECAUTIONS FOR USE

EXPOSURE LIMITS: EXPOSURE STANDARDS (TWA) REPRESENT THE TIME-WEIGHTED AVERAGE AIRBORNE CONCENTRATION OF A SUBSTANCE OVER AN EIGHT HOUR DAY, FOR A FIVE DAY WORKING WEEK, OVER AN ENTIRE WORKING LIFE WHICH, ACCORDING TO CURRENT KNOWLEDGE SHOULD NEITHER IMPAIR THE HEALTH OF, NOR CAUSE UNDUE DISCOMFORT TO, NEARLY ALL WORKERS. THEY ARE GUIDES ONLY AND DO NOT REPRESENT “NO-EFFECT” LEVELS WHICH GUARANTEE PROTECTION TO EVERY WORKER.

WORKSAFE AUSTRALIA HAS ESTABLISHED EXPOSURE STANDARDS FOR THE FOLLOWING INGREDIENTS:

HYDROGEN PEROXIDE: 1.4 mg/m³

VENTILATION: ENSURE VENTILATION IS ADEQUATE TO MAINTAIN AIR CONCENTRATIONS BELOW EXPOSURE STANDARDS AND AS LOW AS IS REASONABLY PRACTICABLE. WHILE GOOD NATURAL VENTILATION MAY BE ADEQUATE IN MOST CASES, LOCAL EXHAUST VENTILATION MAY BE REQUIRED.

Protective Equipment:

PERSONAL PROTECTION: OBSERVE GOOD STANDARDS OF CLEANLINESS AND HYGIENE. AVOID CONTACT WITH SKIN AND EYES. TROUSERS, LONG SLEEVED SHIRT AND CLOSED-IN SHOES OR SAFETY FOOTWEAR SHOULD BE WORN AS A GENERAL PRECAUTION.

EYE PROTECTION: FULL FACE SHIELD, CHEMICAL GOGGLES, OR SAFETY GLASSES SHOULD BE WORN AT ALL TIMES WHILE HANDLING HYDROGEN PEROXIDE. EYE PROTECTION SHOULD COMPLY WITH AS 1337 AND BE SELECTED AND USED IN ACCORDANCE WITH AS 1336.

HAND PROTECTION: PVC GLOVES SHOULD BE WORN WHEN HANDLING HYDROGEN PEROXIDE. HAND PROTECTION SHOULD COMPLY WITH AS 2161.

RESPIRATORY PROTECTION: WHERE VENTILATION IS NOT ADEQUATE, RESPIRATORY PROTECTION MAY BE REQUIRED. AN APPROVED ACID GASES CANISTER AND FULL FACE MASK SHOULD BE USED IF THE ATMOSPHERE IS NOT OTHERWISE HAZARDOUS, EG OXYGEN DEFICIENT. RESPIRATORY PROTECTION SHOULD COMPLY WITH AS 1716 AND BE SELECTED IN ACCORDANCE WITH AS 1715.

OTHER PROTECTION: A PVC APRON, RUBBER OR PVC BOOTS OR A CHEMICAL SPLASH SUIT MAY BE REQUIRED FOR SOME ACTIVITIES PARTICULARLY WHERE A DEFINITE RISK OF SPLASHING IS PRESENT.

FLAMMABILITY: NOT COMBUSTIBLE AND THEREFORE WILL NOT BURN.

INCOMPATIBILITY: ACIDS, ALKALIS, REDUCING AGENTS, OXIDISING AGENTS, RUST, TRANSITION METALS AND THEIR COMPOUNDS, (SUCH AS IRON, COPPER, BRASS, BRONZE, COBALT, NICKEL, LEAD) AS WELL AS ORGANIC AND COMBUSTIBLE MATERIALS.

NORMAL CONDITIONS OF USE: ADD TO WATER

IV. SAFE HANDLING INFORMATION

STORAGE & TRANSPORT:	STORE IN UPRIGHT, ORIGINAL VENTED CONTAINER AT AMBIENT TEMPERATURE IN ACCORDANCE WITH LOCAL STATUTORY REQUIREMENTS AND APPLICABLE STANDARDS. IN AREAS OF MODERATE CLIMATE NEED NOT BE PROTECTED AGAINST SUNSHINE. MAXIMUM STORAGE TEMPERATURE 35°C. TRANSPORT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL, THE IMO REGULATIONS FOR SEA FREIGHT AND THE IATA REGULATIONS FOR AIR FREIGHT.
SPILLS & DISPOSAL:	DILUTE WITH COPIOUS QUANTITIES OF WATER TO LESS THAN 1% AS HYDROGEN PEROXIDE. FLUSH TO DRAIN WITH WATER. APPROVAL MAY BE REQUIRED FROM RELEVANT AUTHORITIES. RINSE CONTAINER WITH WATER, THEN DEFACE ALL LABELS AND PUNCTURE CONTAINER PRIOR TO DISPOSAL. CONSULT SOLVAY INTEROX FOR FURTHER ADVICE.
FIRE EXPLOSION HAZARD:	NOT COMBUSTIBLE
EXTINGUISHING MEDIA:	DRENCH WITH WATER
SPECIAL FIRE FIGHTING PROCEDURES:	NONE
UNUSUAL FIRE & EXPLOSION HAZARD:	WHEN SUBJECTED TO HEAT FROM COMBUSTION OF OTHER MATERIALS WILL DECOMPOSE TO LIBERATE OXYGEN. THIS MAY CAUSE OTHER MATERIALS TO BURN MORE FIERCELY. UNDER CONFINEMENT MAY CAUSE PRESSURE BURSTS DUE TO RELEASE OF GASES OF DECOMPOSITION. DUE TO STRONG OXIDISING NATURE MAY CAUSE COMBUSTIBLE MATERIALS TO CATCH FIRE.
HAZARDOUS DECOMPOSITION PRODUCTS:	LIBERATES OXYGEN WHICH WILL SUPPORT COMBUSTION. LIBERATES HEAT.
PREPARED BY:	BERNIE MORCOM TECHNICAL MANAGER

This Material Safety Data Sheet supercedes all previous issues for this product. Information contained herein is offered in good faith as being true and accurate to the best of our knowledge, but as conditions of use are beyond our control, no guarantees are either stated or implied.

Where health or safety data given discloses a risk to the user or to the environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.