

### SAFETY DATA SHEET



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#### Disclaimer:

CHESSER CHEMICALS Pty Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

## **Product: SODIUM HYPOCHLORITE SOLUTION** (10-15% Available Chlorine)

## Hazardous according to the criteria of the Globally Harmonised System of Classification and **Labelling of Chemicals (GHS)**

**SIGNAL WORD: DANGER** 





Emergency Response No: CHEMWATCH

1800 951 288

#### RECOMMENDED PPE













#### **Health hazards**

H314 Causes severe skin burns and eye damage.

### **Environmental hazards**

Very toxic to aquatic life H400

### Other hazards

**AUH031** Contact with acids liberates toxic gas.



### SAFETY DATA SHEET Pro

 Product: SODIUM HYPOCHLORITE SOLUTION (10-15% Available Chlorine)

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#### 1 IDENTIFICATION

**IDENTIFICATION** 

Product Code: SHC

Product Name: SODIUM HYPOCHLORITE SOLUTION (10-15% Available Chlorine)
Other Names: HYPOCHLORITE SOLUTION; BLEACH; HYPOCHLOROUS ACID

- SODIUM SALT

Product Use: Sanitiser in Dairy Food and Beverage Industries, and Water

Treatment. Bleaching agent in Textile Industry and Laundries.

Restrictions on use: Use as directed. Do not mix with acids

**COMPANY DETAILS** 

Company: CHESSER CHEMICALS Pty Ltd

ABN Number: 67 008 262 039 Address: 124 Days Road

FERRYDEN PARK SA 5010

Telephone Number: (08) 8406 0000 Facsimile Number: (08) 8406 0099

Emergency Telephone Number: CHEMWATCH 1800 951 288

Other Information: This information summarises our best knowledge on the health and safety

hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace

including in conjunction with other products.

#### **2 HAZARD IDENTIFICATION**

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

#### Classification of the substance or mixture:

Skin Corrosion - Category 1
Eye Damage - Category 1
Acute Aquatic Toxicity - Category 1

SIGNALWORD:

DANGER

Corrosion



Environment

**Hazard Statements** 

Physical hazards Health hazards

H314 Causes severe skin burns and eye damage.

**Environmental hazards** 

H400 Very Toxic to aquatic life.

Other hazards

AUH031 Contact with acids liberates toxic gas.

**Precautionary statements** 

General precautionary statements
Prevention precautionary statements

P260 Do not breathe fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

Response precautionary statements

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

Wash contaminated clothing before re-use. P363

IF INHALED: Remove person to fresh air and keep comfortable for P304+P340

P310 Immediately call a POISON CENTRE or doctor/physician.

Specific treatment (see First Aid Measures on Safety Data Sheet). P321

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P391 Collect Spillage.

Storage precautionary statements

P405 Store locked up.

**Disposal precautionary statements** 

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

Poisons Schedule (SUSMP):

#### **3 COMPOSITION**

Ingredients

**Chemical Entity CAS Number Proportion Risk Phrases** 

WATER > 60% [7732-18-5]

SODIUM HYPOCHLORITE [7681-52-9] 10 - 15% H314 H400 SODIUM HYDROXIDE [1310-73-2] 0.7 - 2.0%H290 H314 H318

#### **4 FIRST AID MEASURES**

Description of necessary measures according to routes of exposure

Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of Swallowed

water. Get medical aid immediately.

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally Eye

lifting the upper and lower lids. Get medical aid immediately.

Skin Get medical aid immediately. Immediately flush skin with plenty of soap and

water for at least 15 minutes while removing contaminated clothing and shoes.

Discard contaminated clothing in a manner, which limits further exposure.

Get medical aid immediately. Remove from exposure to fresh air immediately. If Inhaled

not breathing, give artificial respiration. If breathing is difficult, give oxygen. DO

NOT use mouth-to-mouth respiration.

Symptoms caused by exposure: Chlorine gas released from sodium Advice to Doctor

> hypochlorite causes irritation of respiratory system, consisting in coughing, difficult breathing, stomatitis, nausea and pulmonary oedema. Contact with skin can cause skin irritation, followed by blisters and eczema (especially at

12% concentration). The eye contact causes serious damages of eyes.

Ingestion of tens of grams of sodium hypochlorite solution (12% concentration) can cause mucous membrane burns, perforation of the oesophagus and stomach, and laryngeal oedema. Medical Attention and

Special Treatment: In case of eyes and face splashing, treat eyes firstly.

Treat symptomatically and supportively.

**Medical Conditions Aggravated by exposure:** 

No information available on medical conditions aggravated by exposure to this product.

#### **5 FIRE FIGHTING MEASURES**

**General Measures** If safe to do so, remove containers from the path of fire.

**Flammability Conditions** Not considered to be a fire hazard. Sodium hypochlorite itself

does not burn, but poisonous gases are produced in fire.

Suitable Extinguishing Media: Water. Use water spray to cool **Extinguishing Media** 

fire-exposed containers, to dilute liquid, and control vapour. Contact with combustible materials can cause explosions. Fire and Explosion Hazard



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**Hazardous Products of Combustion** Emits toxic fumes of chlorine (hypochlorous acid and

sodium chlorate) when heated to decomposition. The

decomposition is an exothermal process.

Keep containers cool with water spray. During a fire, **Special Fire Fighting Instructions** 

irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self- contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

Containers may explode when heated.

**Personal Protective Equipment** Fire fighters should wear a positive-pressure self-contained

> breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit. Please note: Structural

fire fighters uniform will provide limited protection.

**Flash Point** No Data Available No Data Available **Lower Explosion Limit Upper Explosion Limit** No Data Available **Auto Ignition Temperature** No Data Available

**Hazchem Code** 2X

#### **6 ACCIDENTAL RELEASE MEASURES**

**General Response Procedure** Emergency procedures, Evacuate the danger area or to consult

an expert. Approach from upwind. Isolate the area. Wear selfcontained breathing apparatus in confined spaces, in cases where the oxygen level is depleted, or in case of significant emissions. Prevent further leakage or spillage if safe to do so.

Keep away from incompatible products.

**Clean Up Procedures** Spills/Leaks: The spills can be neutralized using light reducing agents

such as sodium sulphite sodium bisulphite or sodium thiosulphate. Do

not use sulphates or bi-sulphate! Contain and recover when is possible.

Stop leak if safe to do so.

Containment Decontamination Special precautions: Do not use combustible materials, such as

saw dust! Do not use sulphates or bisulphates for spill

neutralizing!

Environmental Precautionary Measures Do not allow product to reach drains, sewers or

waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local

Waste Authority.

**Evacuation Criteria** Evacuate all unnecessary personnel.

Personal Precautionary Measures Personnel involved in the clean up should wear full

protective clothing as listed in section 8.

#### **7 HANDLING AND STORAGE**

Handling Protect against physical damage. Personnel which handling the product must wear

> protective equipment for hand, skin or eyes, and including protective breathing apparatus. Area should be well ventilated. Advice on general occupational hygiene: Avoid inhalation or ingestion and contact with skin and eyes. General occupational hygiene measures are required to ensure safe handling of the substance. Chemicals should be used only by those trained in handling potentially

hazardous materials. The electrical equipment should be corrosion resistant.

**Storage** Keep in tightly closed containers, store in a cool, dry, well ventilated area. Isolate

from incompatible substances. The aqueous solutions are sensitive to light and air. Avoid storage for long period because the product degrades over time. The recommended storing temperature is 15-25 C. Storage at 15 C reduces the rate of

decomposition. This product has a UN classification of 1791 and a Dangerous



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Goods Class 8 (Corrosive) according to The Australian Code for the Transport of Dangerous goods By Road and Rail.

#### Container

Materials used for storage tanks:

- Polyethylene; 5-7 years life time. The outdoor tanks will be UV proof.
- Glass fibre reinforced plastics designed accordingly
- Steel rubber-lined (thickness of lining 3/4")
- Steel Halar lined (Halar is a copolymer 1:1 ethylene-chlorotrifluoroetylene) 3-6 years life time function of quality of lining application.
- Titanium the best material used for tank construction but because the high price is used

only for specific applications.

Incompatible materials: reducing agents, combustible materials (wood, cellulose), organic materials, metals, acids.

Materials to avoid: carbon steel, stainless steel, copper and its alloys, aluminium, unprotected metals.

#### **8 EXPOSURE CONTROL / PERSONAL PROTECTION**

#### General

HSIS Airborne Exposure Limits: Chlorine: TWA 1 ppm (3 mg/m3 peak limitation)

NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. Peak limitation is a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. No Data Available

**Exposure Limits Biological Limits Engineering Measures** 

No information available on biological limit values for this product. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.



Personal Protection Equipment















Work Hygienic Practices

RESPIRATOR: Self-contained breathing apparatus with full face-piece operated in the pressure demand. For emergencies or instances where exposure levels are not known, use a full face piece positive pressure, air supplied respirator. Warning! Air -purifying respirators do not protect workers in oxygen deficient atmospheres (AS1715/1716).

EYES: Chemical splash goggles and/or face shield must be worn when possibility exist for eye contact due to splashing or spraying liquid or vapour (AS1336/1337).

HANDS: Wear PVC, rubber or neoprene gloves. Glove thickness has to be of minimum 1.2 mm. Do not use leather gloves (AS2161).

CLOTHING: Wear impervious protective clothing including boots, lab coat, apron or coveralls and safety footwear (AS3765/2210).

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Odour

Liquid

Chlorine odour



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No Data Available

No Data Available

No Data Available

Colour Clear, colourless

pH >12

Vapour Pressure 2500 Pa (@ 20 °C) Relative Vapour Density No Data Available **Boiling Point** 100 approx °C Freezing Point No Data Available Specific Gravity 1.21 g/cm<sup>3</sup> for 12.0% Flash Point No Data Available **Bulk Density** No Data Available Corrosion Rate No Data Available **Decomposition Temperature** No Data Available Density No Data Available Specific Heat No Data Available Molecular Weight No Data Available Octanol Water Coefficient -3.42 (calculated value) Saturated Vapour Concentration No Data Available Vapour Temperature No Data Available Viscosity 2.6 mPas (@ 20 °C) Volatile Percent No Data Available **VOC Volume** No Data Available Specific density (water=1) 1.21 for 12.0%

Fast or Intensely Burning Characteristics

Flame Propagation or Burning Rate of Solid Materials

No Data Available

No Data Available

No Data Available

No Data Available

Product is a liquid.

Properties That May Initiate or Contribute to Fire Intensity

Reactions That Release Gases or Vapours

Potential for Dust Explosion

Auto Ignition Temp

Release of Invisible Flammable Vapours and Gases
Melting Point
Evaporation Rate
Particle Size
Partition Coefficient
Net Propellant Weight
No Data Available
No Data Available
No Data Available
No Data Available

10 STABILITY AND REACTIVITY

**General Information** Reactivity: Reacts violently with acids with chlorine released.

No Data Available

Possibility of Hazardous Reactions: Sodium hypochlorite is extremely corrosive for aluminium, brass. Reacts with metals (nickel, cooper, tin) with oxygen release, with ammonia urea, oxidisable substances, ammonium nitrate, ammonium oxalate, ammonium phosphate, ammonium acetate, ammonium carbonate, cellulose and methanol. Unstable. Stability decreases with concentration, heat, light exposure,

**Chemical Stability**Unstable. Stability decreases with concentration, heat, light exposure decrease in pH and contamination with heavy metals, such as nickel,

cobalt, copper and iron. In practice, a factor of 2 decrease in

concentration produces nearly a factor of 5 decrease in decomposition rate at any given temperature with a pH range of approximately 11 to 13. At pH<11, sodium hypochlorite is unstable and decomposes with

the release of chlorine.

**Conditions to Avoid** Light, heat and incompatibles.

Materials to Avoid Incompatible materials and possible hazardous reactions: aluminium,

brass, cellulose, steel, stainless steel, bronzes. Strong acids, strong oxidizers, heavy metals (which act as catalysts), reducing agents, ammonia and ammonium salts, ether, and many organic and inorganic

chemicals such as paint, kerosene, paint thinners, shellac.

sodium chlorate) when heated to decomposition. The

decomposition is an exothermal process.



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**Hazardous Polymerisation** 

Sodium hypochlorite is extremely corrosive for aluminium, brass. Reacts with metals (nickel, cooper, tin) with oxygen release, with ammonia, urea, oxidisable substances, ammonium nitrate, ammonium oxalate, ammonium phosphate ammonium acetate, ammonium carbonate, cellulose and methanol.

#### 11 TOXICOLOGICAL INFORMATION

#### **General Information**

Acute toxicity: Sodium Hypochlorite:

Rat male Oral  $LD_{50} = 1100 \text{ mg/kg}$ bw (for sodium hypochlorite sol. 12% free chlorine). Mouse male Oral  $LD_{50} =$ 880 mg/kg bw (for sodium hypochlorite sol. 12% free chlorine).

Other routes: Intra-peritoneal

 $LD_{50}(1h) > 10.7$ mg/L air, causes abundant tearing. Rabbit male/female  $LD_{50}$ >20 g/kg bw. Causes serious skin irritation.

240-250 mg/kg Mouse LD bw. Guinea pig LD 63 mg/kg bw.

Repeated dose toxicity:

Oral **NOAEL** 50 bw/day mg/kg Respiratory or skin sensitisation: Not sensitising

Germ cell mutagenicity: No genetic toxicity effects Carcinogenicity No carcinogenic potential

Sodium hypochlorite has no genotoxic potential, Reproductive toxicity

therefore no classification is required according to 67/548/EEC and 1272/2008/EC (CLP) requirements.

Information on Possible routes of exposure: Ingestion, Inhalation, Skin/ eye exposure.

Interactive Effects:

Sodium hypochlorite reacts rapidly with the organic molecules and cellular components, forming organic chlorinated compounds which have their own toxicity (BIBRA 1990)

Causes eye damage. Eye damage, category 1. Corrosive. Eye contact causes **Eye Irritant** 

serious burns and discomfort. Prolonged contact may result in permanent

Ingestion Causes severe pain, nausea, vomiting, diarrhoea, and shock. May cause

> haemorrhaging of the digestive tract. May cause corrosion and permanent tissue destruction of the oesophagus and digestive tract. May be harmful if swallowed. Irritant. Inhalation of sprayed solution and vapours can cause respiratory system

irritation caught, difficulty of breathing, stomatitis, nausea and pulmonary oedema.

Classified as STOT Single Exposure 3.

Skin Irritant Light irritant at low concentrations. Moderate irritant at medium concentrations

(>5%). Corrosive at concentration higher than 10%. Skin corrosive category 1B.

Chronic

Inhalation

Other Prolonged inhalation may cause respiratory tract inflammation and lung damage.

Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye

contact may cause conjunctivitis to serious eye damage.

**Carcinogen Category** No Data Available

#### 12 ECOLOGICAL INFORMATION

**Ecotoxicity Aquatic Toxicity** 

Tests demonstrate NOEC (7 days) = 0.0021 mg/L. Factor M=10.

Short-term toxicity to invertebrates (molluscs, Daphnia magna, Ceriodaphnia dubia)

- Fresh water: EC50/LC50 =0,141 mg/L

- Marine water: EC50/LC50 =0.026 mg/L

Long-term toxicity to invertebrates

- Marine water: LC100 (36days) 0,005mg/L

- NOEC for aquatic invertebrates = 0.007 mg/L

Short-term toxicity to fish

- Fresh water LC 50 =0.06 mg/l
- Marine water LC 50= 0.032 mg/l





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Long-term toxicity to fish

- Marine water: NOEC= 0.04 mg CPO/L

Short-term toxicity to algae and aquatic plants: Not applicable, sodium hypochlorite decomposes rapidly.

Long-term toxicity to algae and aquatic plants

- Fresh water EC50/LC50=0.1 mg/l

- Marine water EC10/LC10 or NOEC =0.02 mg/L

PNEC (Predicted No Effect Concentration)

PNEC fresh water = Minimum long-term aquatic toxicity/10 = 0.21  $\mu$ g/L

PNEC marine water = Minimum long-term aquatic toxicity /50 = 0.042 µg/L

Toxicity to sediment micro-organisms

There are not predicted exposures due the fact that sodium hypochlorite is destroyed quickly by oxv-reduction.

Sodium hypochlorite can not exist in presence of organic carbon.

PNEC=0 fresh water sediment / marine water sediment.

Terrestrial toxicity

Short/long -term toxicity to terrestrial invertebrates

Substance is not absorbed in soil and is not persistent in soil. TD50<1 min, PEC/PNEC soil<1.

Toxicity to soil micro-organisms

Short/long term toxicity to plants

Due the fact that PEC/PNEC for terrestrial toxicity is <1 and at contact with soil hypochlorite dissipates quickly (TD50 <1 min) there is not estimated short/long toxicity to plants. In accordance with column 2 of REACH Annexes IX and X, there is no need to further investigate the effects of the substance on plants.

Long-term toxicity to birds

EC10/LC10 or NOEC on long term: 200 mg/kg food

Biotic: The inorganic water can not be tested for biodegradability.

Abiotic: Hypochlorite degrades quickly during the transport through sewage system.

Photo-transforming (Photolysis)

Atmospheric degradation: At medium pH (6, 5-8, 5) value, half of sodium hypochlorite is present as hypochlorous acid and the other half is dissociate as hypochlorite ions.

In the atmosphere, hypochlorous acid degrades, generating atomic chlorine, which is destroyed by UV radiation. The half-life is 115 days. Does not react with ozone layer.

Photolysis in water

Half-life for sodium hypochlorite solution, active chlorine 12-15%, at 250C is 220 days. In presence of light, the half-life decreases 3-4 times. The UV radiation decomposes the hypochlorite, generating chlorate, chlorite and oxygen:

3 CIO- => CIO3- + 2 CI- (1)

2 CIO- => 2 CI- + O2 (2)

In water, under photolysis, sodium hypochlorite with concentration of 13-18 mg/L, has a half-life of 12 min. at pH = 8. This increases up to 60 min. with pH decreasing

Persistence/Degradability

Mobility: At medium pH (6,5-8,5) value, half of sodium hypochlorite is present as hypochlorous acid and the other half is dissociate as hypochlorite ions. The absorption of hypochlorous acid particles, the air volatilization and soil absorption are very low. Thus, hypochlorite remains in aqueous phase and degrades to chlorine.

Environmental Fate: Do NOT let product reach waterways, drains and sewers.

Bioaccumulation Potential: Hypochlorite reacts instantaneously with organic and oxidant materials. Has not potential for bioaccumulation.

PBT/vPvB: Hypochlorite does not fulfil the PBT criteria (not PBT) and not the vPvB criteria (not vPvB).

Environmental Impact: No Data Available

#### 13 DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority. Dispose of material through a Disposal methods:

licensed waste contractor. Decontamination and destruction of

containers should be considered



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CORROSIVE

CORROSIVE

CORROSIVE

#### 14 TRANSPORT INFORMATION

#### Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for

Transport by Road and Rail; DANGEROUS GOODS.

UN No: 1791 Transport Hazard Class: 8 Corrosive

Packing Group: III

Proper Shipping Name: HYPOCHLORITE SOLUTION

Hazchem or Emergency Action Code: 2X

**Marine Transport** 

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No: 1791 Transport Hazard Class: 8 Corrosive

Packing Group:

Proper Shipping Name or Technical Name: HYPOCHLORITE SOLUTION

IMDG EMS Fire: F-A
IMDG EMS Spill: S-B

**Air Transport** 

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA)

Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No: 1791
Transport Hazard Class: 8 Corrosive

Packing Group:

Proper Shipping Name or Technical Name: HYPOCHLORITE SOLUTION

#### 15 REGULATORY INFORMATION

Poisons Schedule S5

EPG 37 TOXIC and/or CORROSIVE SUBSTANCES

AICS Name All the constituents of this material are listed on the Australian

Inventory of Chemical Substances (AICS).

Classification:

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

Classification of the substance or mixture:

Skin Corrosion - Sub-category 1B
Eye Damage - Category 1
Acute Aquatic Toxicity - Category 1

Hazard Statement(s):

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life

AUH031 Contact with acids liberates toxic gas

#### **16 OTHER INFORMATION**

Kg

Literature References No data available. Sources for Data No data available.

Legend to Abbreviations and Acronyms
< less than

> greater than

AICS Australian Inventory of Chemical IDL

Substances
CAS Chemical Abstracts Service (Registry

Number)

cm² square centimetres
 CO<sub>2</sub> Carbon Dioxide
 COD Chemical Oxygen Demand

deg C (°C) degrees Celsius
ERMA Environmental Risk Management Authority

G gram

g/cm³ grams per cubic centimetre

LD stands for Lethal Dose. LD50 is the amount of a material, given all at once,

which causes the death of 50% (one half) of a group of test animals

Ltr Litre cubic metre mbar millibar

g/I grams per litre

HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
Immiscible liquids are insoluble in each other

kilogram

kg/m³ kilograms per cubic metre
LC50 LC stands for lethal conce

LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1

or 4 hours.

mg milligram

mg/24H milligrams per 24 hours mg/kg milligrams per kilogram mg/m³ milligrams per cubic metre

Misc miscible

Miscible liquids form one homogeneous liquid phase regardless of the amount of either

component present





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mm millimetre

mPa.s milli Pascal per second

N/A Not Applicable

NOHSC National Occupational Health and Safety

Commission

OECD Organization for Economic Co-operation

and Development

PEL Permissible Exposure Limit

 ppm/2h parts per million per 2 hours
ppm/6h parts per million per 6 hours
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value

tne tonne

TWA Time Weighted Average ug/24H micrograms per 24 hours UN United Nations (number)

Wt weight

Date Prepared:

Tuesday 6<sup>th</sup> February 2024 Version: 1.2 Supersedes: Friday 28<sup>th</sup> March 2019

**Update dates** 



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