



Wobelea Pty Ltd
T/As Poolkare Chemicals
18 Embrey Court, Pakenham Victoria 3810

ABN: 60 005 363 833

POOLKARE CHEMICALS - HYDROXAN

Safety Data Sheet according to WHS and ADG requirements

Issue Date: **22.02.2017**

Revise Before:

21.02.22

VERSION ONE

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	POOLKARE CHEMICALS HYDROXAN
Chemical Name	Tetrachloro deca oxide complex (TCDO-anion), aqueous solution
Other Name	Poolkare Chemicals HYDROXAN
Chemical formula	Not available
Other means of identification	Not Available
CAS number	92047-76-2

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Added to swimming pool water and activated to produce chlorine dioxide as a disinfectant and to remove chloramines
---------------------------------	--

Details of the supplier of the safety data sheet

Registered company name	Wobelea Pty Ltd
Address	18 Embrey Court, Pakenham Vic 3810
Telephone	03 5940 1077
Fax	03 5940 2599
Website	www.wobelea.com.au
Email	Not Available

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	03 5997 1690
Other emergency telephone numbers	0427 367 561

Continued...

SECTION 2 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.
HAZARD RATINGS

	Min	Max
Flammability	0	
Toxicity	0	
Body Contact	1	
Reactivity	1	
Chronic	0	

0 = Minimum
1 = Low
2 = Moderate
3 = High
4 = Extreme

Poisons Schedule	Not Applicable
Classification	Not Applicable

Label elements

GHS label elements	Not Applicable
---------------------------	----------------

SIGNAL WORD	NOT APPLICABLE
--------------------	-----------------------

Hazard statement(s)

Not Applicable

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**Substances**

CAS No	%[weight]	Name
92047-76-2	>99	Tetrachloro deca oxide complex (TCDO-anion), aqueous solution

Mixtures

See section above for composition of Substances

SECTION 4 FIRST AID MEASURES**Description of first aid measures**

Eye Contact	<p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> ▶ 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.
Skin Contact	<p>If skin contact occurs:</p> <ul style="list-style-type: none"> ▶ Immediately remove all contaminated clothing, including footwear. ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.

Continued...

POOLKARE - HYDROXAN

Inhalation	<ul style="list-style-type: none"> ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▶ Other measures are usually unnecessary.
Ingestion	<ul style="list-style-type: none"> ▶ Immediately give a glass of water. ▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- ▶ Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	<ul style="list-style-type: none"> ▶ None known
----------------------	--

Advice for firefighters

Fire Fighting	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ May emit corrosive fumes. ▶ Non-combustible. ▶ Not considered a significant fire risk, however containers may burn. ▶ Avoid contact with acids and other chlorine products as chlorine dioxide may be generated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	<ul style="list-style-type: none"> ▶ Clean up all spills immediately. ▶ Avoid breathing dust and contact with skin and eyes. ▶ Wear protective clothing, gloves, safety glasses and dust respirator. ▶ Use dry clean up procedures and avoid generating dust.
Major Spills	<p>Moderate hazard.</p> <ul style="list-style-type: none"> ▶ Dilute with plenty of water and dispose of as sewage unless unsuitable to do so as per chemical technical reasons. ▶ CAUTION: Advise personnel in area. ▶ Alert Emergency Services and tell them location and nature of hazard.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	<ul style="list-style-type: none"> ▶ Avoid all personal contact, including inhalation. ▶ Wear protective clothing when risk of exposure occurs. ▶ Use in a well-ventilated area. ▶ Prevent concentration in hollows and sumps. ▶ Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. ▶ Establish good housekeeping practices. ▶ Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.
Other information	<ul style="list-style-type: none"> ▶ Store in original containers. ▶ Keep containers securely sealed. ▶ Store in a cool, dry area protected from environmental extremes. ▶ Store away from incompatible materials and foodstuff containers. ▶ Mixing with acids may generate chlorine dioxide

Conditions for safe storage, including any incompatibilities

Storage	<ul style="list-style-type: none"> ▶ + 5°C to + 35°C protect from sun.
---------	---

Continued...

POOLKARE - HYDROXAN

Suitable container	<ul style="list-style-type: none"> ▶ Plastic pail. ▶ Polyliner drum. ▶ Packing as recommended by manufacturer. ▶
Storage incompatibility	<ul style="list-style-type: none"> ▶ Do not store the original container gas tight. ▶ Do not store with acids and other chlorine products



+ + + + + + +

- X — Must not be stored together
 O — May be stored together with specific preventions
 + — May be stored together

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Tetrachloro deca oxide complex (TCDO-anion), aqueous solution	TCDO	Not available	Not available	Not available

Ingredient	Original IDLH	Revised IDLH
TCDO	Not Available	Not Available

Exposure controls – the following is based on good housekeeping and should be used as a precaution only at the users discretion.

Appropriate engineering controls	<p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</p>
Personal protection	
Eye and face protection	<ul style="list-style-type: none"> ▶ Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
Skin protection	See Hand protection below
Hands/feet protection	<p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can't be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</p> <p>Suitability and durability of glove type is dependent on usage.</p> <p>Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.</p> <ul style="list-style-type: none"> ▶ polychloroprene. ▶ nitrile rubber. ▶ butyl rubber.
Body protection	See Other protection below

Continued...

POOLKARE - HYDROXAN

Other protection	<ul style="list-style-type: none"> ▶ Overalls. ▶ P.V.C. apron. ▶ Barrier cream.
Thermal hazards	Not Available

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:000 & 149:001, ANSI Z88 or national equivalent). Follow good house keeping rules.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance	Liquid, pastel green to transparent		
Physical state	Liquid	Relative density (Water = 1)	Not available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Approximately 8.2 – 8.4	Decomposition temperature	Not available
Melting point / freezing point (°C)	-11 °C	Viscosity (cSt)	20°C = 1.1 mPas
Initial boiling point and boiling range (°C)	102.6 °C	Molecular weight (g/mol)	Not available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Nil
Vapour pressure (kPa)	50°C = 298 K / 2.7 kPa	Gas group	Not Available
Solubility in water (g/L)	Miscible 20°C	pH as a solution (1%)	unknown
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials mixing with acids can generate chlorine dioxide Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7

Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicology

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.	
Ingestion	Although ingestion is not thought to produce harmful effects (as classified under EC Directives – maintain good hygiene and housekeeping practises.	
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.	
Eye	Limited evidence or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals.	
Chronic	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.	
Tetra chloro deca oxide	TOXICITY	IRRITATION
	Oral (rat) LD50: 4.58 ml/kg- LG live weight (24 hours) irritations after application even after 24 hours.	Eye (rabbit): negative. 10% solution does not show conjunctive
	According to Etad Sub Committee for Toxicology classified as a non irritant (LC50 (96) Hr > 1000 PPM)	

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

There is no adverse effect of the product if it is diluted with plenty of Water.

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
TCDO	LC50	unknown	Fish – Daphnia magna	1210mg/l – non toxic	1

Legend: Extracted from 1. Wapotec SDS

Persistence and degradability

Ingredient	Water/Soil	Persistence: Air
TCDO	No data available	No data available

Bio accumulative potential

Ingredient	Bio accumulation
TCDO	No data available

Mobility in soil

Ingredient	Mobility
TCDO	No data available

NOTE: Do not dispose of the product undiluted with ground water.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	<p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> ▶ Reduction ▶ Reuse ▶ Recycling ▶ Disposal (if all else fails) <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.</p> <ul style="list-style-type: none"> ▶ Dilute leftover material with plenty of water and can be disposed of to sewage or storm water as long as waste laws are observed in their state or country. ▶ Empty containers may be triple rinsed and disposed off in local rubbish collection. Refer to your local state or country laws. ▶
-------------------------------------	---

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture.

This safety data sheet complies with the Regulations (EC) Reach N° 1907/2006. The mixture is classified according to Dangerous Preparations Directive (EC) 1999/45 and to regulation (EC) 1272/2008 Annex I.

National regulatory: Austria: Labeling according to BGBl II 2000/81 ChemV 1999. The product is not classified and does not require hazards identification.

ChemG 1996 This product is not classified hazardous according to the Austrian chemical legislation of 1996. VbF - Directive about combustible liquids (BGBl 1991/240) This product is not classified as combustible liquid.

Germany: Classification in water hazard classes according VwVwS dated 17.05.1999 (self assessment)

wp 2 (water pollutant) Chemical safety assessment The mixture is not subject to safety assessment

SECTION 16 OTHER INFORMATION

Other information

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Wobelea Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Please note this product is designed as a precursor to activate with acids and or liquid chlorine to form chlorine dioxide.

This SDS should be used a guideline only. Further information can be obtained from the manufacturer if required. The user should be aware of changing technology, research, regulations, and analytical procedures that may require changes herein. The above data is supplied upon the condition that persons will evaluate this information and then determine its suitability for their use.

Contact Person/Author	Sarah Bliss
Title	Director
Email	sarah@wobelea.com.au
Phone:	03 5940 1077

Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average
PC—STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit,
IDLH: Immediately Dangerous to Life or Health Concentrations
OSF: Odour Safety Factor
NOAE : No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: Bio-Concentration Factors
BEI: Biological Exposure Index

end of SDS