

# 1. Identification of Substance & Company

**Product** 

Product name Stabiliser

Other names Isocyanuric acid stabiliser, cyanuric acid

HSNO approval HSR002684

Approval description Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2020

UN number NA
DG class NA
Proper Shipping Name NA
Packaging group NA
Hazchem code NA

**Uses** Pool Chemical

**Company Details** 

CompanyPoolwise LtdPhysical Address93 Ireland Road,<br/>Mt Wellington,

Mt Wellington, 1060, Auckland New Zealand 09 527 0753

 Telephone
 09 527 0753

 Fax
 09 527 4189

 Website
 www.poolwise.co.nz

# **Emergency Telephone Number: 0800 764 766**

# 2. Hazard Identification

#### **Approval**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002684, Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020 and is classified as follows:

## **GHS 7 Classes**

## **Hazard Statements**

Eye irritation category 2 **SYMBOLS** 

H319 - Causes serious eye irritation.

# **WARNING**



#### Other Classifications

There are no other classifications that are known to apply.

# **Precautionary Statements**

**Prevention** P103 - Read label before use.

P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection.

**Response** P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

**Storage** No storage statements

**Disposal** P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

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3.	Com	position .	/ Information	on Ingredients
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Component	CAS/ Identification	Conc (%)
Cyanuric acid	108-80-5	100%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

#### 4. First Aid

#### **General Information**

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

facilities

Ready access to running water is required. Accessible eyewash is required.

**Exposure** 

**Swallowed** Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.

Eye contact If product gets in eyes, wash material from them with running water for several minutes.

If symptoms persist, seek medical advice.

Skin contact

This product is non-irritating to skin. No further measures should be required. Inhaled Generally, inhalation of dusts is unlikely to result in adverse health effects. If coughing,

dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

#### **Advice to Doctor**

Treat symptomatically

## 5. Firefighting Measures

Fire and explosion hazards:

Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Products of combustion:

Unknown.

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.

May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying

There are no specific risks for fire/explosion for this chemical. It is non-flammable.

Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or

spaces, forming potentially explosive mixtures.

Protective equipment:

No special measures are required. NA

alcohol resistant foam.

Hazchem code:

#### 6. Accidental Release Measures

Containment

Design storage to prevent discharge to storm water.

**Emergency procedures** 

If a significant spill occurs: Stop leak if safe/necessary; Isolate area. Collect spill - see below; Transfer to container for disposal. Dispose of according to guidelines below

(Section 13).

Clean-up method

Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or

Disposal

waterways has occurred advise local emergency services. Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations. No special protective clothing is normally necessary.

**Precautions** 

#### 7. Storage & Handling

Storage

Avoid storage of harmful substances with food. Store out of reach of children. Store locked up. Store in a cool ventilated place. Containers should be kept closed in order to minimise contamination. Keep from extreme heat, sunlight and open flames. Avoid contact with incompatible substances as listed in Section 10.

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#### Handling

Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of dust.

# 8. Exposure Controls / Personal Protective Equipment

#### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA WES-STEL Exposure Stds Cyanuric acid data unavailable data unavailable

#### **Engineering Controls**

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

#### **Personal Protective Equipment**

General

Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate.

Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.

**Eyes** 



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.

Skin

Respiratory

Protective gloves and clothing are not normally necessary. However, it is prudent to wear gloves when handling chemicals in bulk or for an extended period of time. A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with a dust filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

## **WES Additional Information**

Not applicable

#### 9. Physical & Chemical Properties

**Appearance** white crystalline powder

Odour odourless
Odour threshold no data
pH 4.5 (20°C)
Freezing / melting point no data
Boiling point no data

Flash point non flammable Flammability non flammable Upper & lower flammable limits no LEL or UEL

Vapour pressure no data
Vapour density no data
Specific gravity / density 2.5g/cm³
Solubility 0.3g/100mL
Partition Coefficient: no data
Auto-ignition temperature no data

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Decomposition temperatureno dataViscosityno dataParticle characteristicsno data

#### 10. Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat, sunlight, open flames. Avoid generating dusts. Avoind contact with moisture.

**Incompatible groups**Oxidisers, chlorine, ethanol, moist air, water, sources of ignition.

Substance Specific none known

Incompatibility

Hazardous decomposition Oxides of Nitrogen, Oxides of ccarbon, nitrigen and isocyanic acid gas.

products

Hazardous reactions none known

#### 11. Toxicological Information

#### **Summary**

IF SWALLOWED: no adverse effects are expected, however largen amounts may cause nausea and vomiting. May cause irritation of the digestive tract.

IF IN EYES: dust may cause discomfort and irritation.

IF ON SKIN: may cause mild transient irritation.

IF INHALED: dust may cause respiratory tract irritation.

#### **Supporting Data**

Acute Oral The LD<sub>50</sub> (oral) for cyanuric acid 7700mg/kg (rat), 3400mg/kg (mouse).

 $\begin{array}{ll} \textbf{Dermal} & \text{The LD}_{50} \ (\text{dermal}) \ \text{for cyanuric acid} > 5000 \text{mg/kg (rat)}. \\ \textbf{Inhaled} & \text{The LC}_{50} \ (\text{inhalation, rat)} \ \ \text{for cyanuric acid} \ 5.25 \text{mg/L} \ (\text{air, rat)}. \\ \end{array}$ 

InhaledThe LC50 (inhalation, rat) for cyanuric acid 5.25mg/L (air, rat).EyeCyanuric acid is an eye irritant. Draize Test: 500mg/24hr (rabbit).SkinCyanuric acid is a mild skin irritant 9below threshold for classification).SensitisationNo ingredient present at concentrations > 0.1% is considered a sensitizer.

Mutagenicity
Carcinogenicity
No ingredient present at concentrations > 0.1% is considered a mutagen.
No ingredient present at concentrations > 0.1% is considered a carcinogen.

**Reproductive** / No ingredient present at concentrations > 0.1% is considered a reproductive or **Developmental** developmental toxicant or have any effects on or via lactation.

Systemic No ingredient present at concentrations > 1% is considered a target organ toxicant.

Aggravation of None known.

existing conditions

## 12. Ecological Data

#### Summary

Chronic

This substance is not considered ecotoxic.

## **Supporting Data**

Aquatic The EC<sub>50</sub> for Cyanuric acid >100mg/L.

Bioaccumulation No data
Degradability No data

**Soil** No evidence of soil toxicity.

**Terrestrial vertebrate**This substance is not considered ecotoxic towards terrestrial vertebrates.

**Terrestrial invertebrate** No evidence of toxicity towards terrestrial invertebrates.

Biocidal No data

**Environmental effect levels**No EELs are available for this mixture or ingredients

# 13. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal method Disposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore

rendered non-hazardous before discharge to the environment.

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Contaminated packaging

Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is renedered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging.

## 14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

There are no specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:Not applicable.Hazchem code:NA

## 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002684, Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2020. All ingredients appear on the NZIoC.

#### **Specific Controls**

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substances

that have been decanted, transferred or manufactured for own use or have been

supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Not required. Certified handler Not required. Not required. Tracking Bunding & secondary containment Not required. Signage Not required. Not required. Location compliance certificate Flammable zone Not required. Not required. Fire extinguisher

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

#### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

#### 16. Other Information

#### **Abbreviations**

Approval Code

Approval HSR002684, Water Treatment Chemicals (Subsidiary Hazard) Group Standard

2020, Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

**EC**<sub>50</sub> Ecotoxic Concentration 50% − concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised

edition, 2017, published by the United Nations.

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

**HSNO** Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer

**LEL** Lower Explosive Limit

**LD**<sub>50</sub> Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population

(usually rats)

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NZIoC New Zealand Inventory of Chemicals

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

**STOT RE**System Target Organ Toxicity – Repeated Exposure **STOT SE**System Target Organ Toxicity – Single Exposure

Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UELUpper Explosive LimitUN NumberUnited Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

References

Data

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site - www.worksafe.govt.nz.

Other References: Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus

Review

DateReason for reviewJune 2018Not applicable – new SDSNovember 2022HSNO to GHS, approval update

#### Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 104951.

