


Product Name	: PULSAR CLEANING SOLUTION 50%	Issue Date	: 1 st September 2021
Reference No	: Version 21.02	Replaces	: 3 rd January 2017

1. IDENTIFICATION

GHS Product Identifier	PULSAR CLEANING SOLUTION 50%
Supplier Name	Integra Water Treatment Solutions
Address	Unit B/195 Port Hacking Road, Miranda NSW 2228
Telephone	(02) 9574 0000
Fax	(02) 9574 0011
Emergency Contact	1300 880 735
Recommended Use	Specialty chemical

2. HAZARD IDENTIFICATION

Classification of the substance or mixture	Classified as Hazardous according to the criteria of GHS. Classified as non-Dangerous Goods according to ADG Code. This material is classified as HAZARDOUS according to the criteria of Safe Work Australia. Classification: Acute Toxicity (Oral) – Category 4 Skin Corrosion/Irritation – Category 2 Serious Eye Damage/Eye Irritation – Category 2	
Signal Word(s)	Warning	
Hazard Statement(s)	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H319	Causes skin irritation.
Pictogram(s)		
Precautionary Statement – Prevention	P264	Wash hands thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement – Response	P330	Rinse mouth.
	P362	Take off contaminated clothing and wash before reuse.
	P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician IF you feel unwell.
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P332+P313	IF SKIN irritation occurs: Get medical advice/attention.
	P337+P313	IF eye irritation persists: Get medical advice/attention.
Precautionary Statement – Storage	There are no Precautionary-Storage phrases assigned.	
Precautionary Statement – Disposal	P501	Dispose of contents/container to an approved waste disposal plant.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Ingredients	Name	CAS	Proportion
	L-Lactic acid	79-33-4	30-60%
Water	7732-18-5	30-60%	

4. FIRST AID MEASURES

Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop, seek medical attention.
Ingestion	Do NOT induce vomiting. Wash out mouth with water. If symptoms develop, seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Seek medical attention.
Eye Contact	If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek immediate medical attention.
Advice to Doctor	Treat symptomatically based on individual reactions of patient and judgement of doctor.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Carbon dioxide, dry chemical, foam or water mist.
Hazard from Combustion Products	Thermal decomposition can lead to releasing of irritating gases and vapours.
Specific Hazards Precautions	This product will burn in a fire after the evaporation of water component. Fire-fighters should wear full protective clothing and Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode. Water spray must be used to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Increase ventilation. Wear protective clothing to minimise skin and eye exposure.
Clean-up & Disposal	Neutralise with limestone powder, lime, soda ash. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Mop up material and place into properly labelled containers. If the spillage enters the waterways, contact the EPA or your local waste management authority.

7. HANDLING AND STORAGE

Safe Handling	Use in a well-ventilated area. Build-up of mists or vapours in the atmosphere must be prevented. Avoid breathing in mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Wear appropriate protection. It is essential that all who come into contact with this material maintain high standards of personal hygiene, i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.
Safe Storage	Store in a cool, dry well-ventilated area. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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National Exposure Standards	No exposure standards have been established for this material.
Biological Limit Values	No biological limits allocated.
Engineering Controls	Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.
Respiratory Protection	Where ventilation is inadequate, the use of an air purifying respirator with replaceable filter complying with AS/NZS 1715, and AS/NZS 1716 is recommended.
Eye Protection	The use of chemical goggles or safety glasses with side shield protection is recommended. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves or impervious material such as rubber gloves. Final choice of appropriate gloves will vary according to individual circumstances, i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational Protective Gloves – Selection, Use and Maintenance.
Body Protection	Suitable workwear should be worn to protect personal clothing. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial Clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless/yellow/light brown aqueous solution
Boiling Point	110 °C (40% solution); 125 °C (90% solution)
Decomposition	>200 °C
Temperature	
Solubility in Water	Soluble
Specific Gravity	No data available
pH Value	<2 (25 °C)
Vapour Pressure	No data available
Vapour Density (Air=1)	No data available
Flash Point	>112 °C
Flammability	This product will burn in a fire after the evaporation of water component
Ignition Temperature	No data
Flammable Limits (Lower)	No data
Flammable Limits (Upper)	No data

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Temperatures above 200 °C
Incompatible Materials	Strong oxidising agents, metals, acids and bases.
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Oral (rat): LD ₅₀ , 3730 mg/kg. Dermal (rabbit): LD ₅₀ , >2000 mg/kg. Oral (mouse): LD ₅₀ , 4875 mg/kg.
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Inhalation	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion	Ingestion of this product may irritate the gastric tract, causing nausea and vomiting.
Skin	Irritating to skin, resulting in redness and itching.
Eye	Risk of serious damage to eyes. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.
Chronic Health Effects	Prolonged or repeated skin contact may cause defatting, leading to dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Daphnia magna (48 hrs) EC ₅₀ , 240 mg/L Fish (48 hrs) LC ₅₀ , 320 mg/L Algae EC ₅₀ , 3500 mg/L
Persistence/Degradability	BOD ₅ = 0.45 mg O ₂ /mg BOD ₂₀ = 0.60 mg O ₂ /mg COD = 0.9 mg O ₂ /mg
Mobility	Completely soluble in water.
Bioaccumulative Potential	No information available on bioaccumulation for this product.
Environmental Protection	Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Method	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with local, state and federal regulations or recycled/reconditioned at an approved facility.
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14. TRANSPORT INFORMATION

Transport Information	Classified as non-dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th Edition).
UN Proper Shipping Name	LACTIC ACID SOLUTION

15. REGULATORY INFORMATION

Poisons Schedule Number	Not scheduled.
Packaging and Labelling	As required by the ADG Code and Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

The ingredients contained in this product listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Date Prepared	1 st September 2021
Abbreviations	GHS – Globally Harmonised System of Classification and Labelling of Chemicals ADG – Australian code for the Transport of Dangerous Goods by Road and Rail EPA – Environmental Protection Authority LD ₅₀ (Lethal Dose) – Amount of ingested product that kills 50% of a test sample. EC ₅₀ (Half Maximal Effective Concentration) – Concentration of a drug that gives half-maximal response. LC ₅₀ (Lethal Concentration) – Lethal concentration required to kill 50% of a test sample.



SAFETY DATA SHEET

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Others

This information summarizes our best knowledge of 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 this information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

...END OF SDS...