

1. Identification of Substance & Company

Product		
Product name Product code HSNO approval Approval description UN number Proper Shipping Name DG class Packaging group Hazchem code Uses	Sodium carbonate NA HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2020 NA NA NA NA NA Raises the pH of swimming pool water	
Company Details		
Company Physical Address	Argo International Ltd 9 St Benedicts St, Eden Terrace, Auckland New Zealand	
Telephone Fax Email	+64 9 377 5061 +64 9 309 1992 argo@argoint.co.nz	
	argoint.co.nz elephone 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.

GHS Classes

Acute toxicity category 4 (oral) Skin irritant category 2 Eye irritant category 2 SYMBOLS



Hazard Statements

- H302 Harmful if swallowed. H315 - Causes skin irritation.
- H319 Causes serious eye irritation.

Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Prevention	 P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/eye protection.
Response	P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. P330 - Rinse mouth. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P332+P313 - If skin irritation occurs: Get medical advice/ attention. P362 - Take off contaminated clothing and wash before re-use.

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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. none

Storage Disposal

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

3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
sodium carbonate	497-19-8	pure (100%)

This is a commercial product whose exact ratio of components may vary slightly. 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 Ready access to running water is recommended. Accessible eyewash is recommended. facilities

Exposure	
Swallowed Eye contact	Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before re-use.
Inhaled	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
Advice to Doctor	
Treat symptomatically	
5. Firefighting Measures	
Fire and explosion hazards: Suitable extinguishing substances: Unsuitable extinguishing substances:	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 alcohol resistant foam. Unknown.
Products of combustion:	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 spaces, forming potentially explosive mixtures.
Protective equipment: Hazchem code:	No special measures are required. NA

6. Accidental Release Meas	sures
Containment	If greater than 1000kg is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases 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 waterways has occurred advise local emergency services.
Disposal	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.
Precautions	No special protective clothing is normally necessary.
7. Storage & Handling	
Storage	Avoid storage of harmful substances with food. Store out of reach of children. Containers

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



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Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.

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.

WES-TWA	WES-STEL
data unavailable	data unavailable
Uala unavaliable	uata unavaliable
	WES-TWA 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.

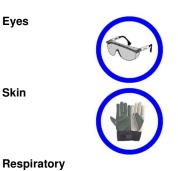
Personal Protective Equipment

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.

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.



Protective gloves are recommended. Rubber or PVC gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1.

Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a dust mask or respirator may be preferred.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Opaque white crystalline or granular solid no odour not applicable alkaline 851°C not available not applicable non flammable No LEL or UEL negligible at normal ambient temperatures no data 2.53 (compressed solid) miscible in water no data no data no data no data
no data



10. Stability & Reactivity Stability Stable Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames. Incompatible groups Water, acids, zinc, tin, aluminium and their alloys. Substance Specific None known Incompatibility Hazardous decomposition Carbon dioxide, carbon monoxide. products **Hazardous reactions** None known

11. Toxicological Information

Summary

IF SWALLOWED: may cause irritation of the mouth. Symptoms may include burning sensation and reddening of skin in mouth and throat.

IF IN EYES: may cause eye irritation. Symptoms may include stinging and reddening of eyes and watering which may become copious.

IF ON SKIN: may cause skin irritation. Symptoms may include itchiness and reddening of contacted skin. IF INHALED: dusts may cause irritation of the respiratory system. Symptoms may include headache, irritation of nose and throat

and increased secretion of mucous in the nose and throat.

Supporting Data

Acute	Oral Aspiration Dermal	The LD ₅₀ (oral, rat) for sodium carbonate: 4090 mg/kg (rat) Sodium carbonate is not considered an aspiration hazard. No evidence of dermal toxicity.
	Inhaled	The LC ₅₀ (inhalation, rat) for sodium carbonate 1.15 mg/l (dust).
	Eye	Sodium carbonate is considered a skin irritant.
	Skin	Sodium carbonate is considered an eye irritant.
Chronic	Sensitisation	No ingredient present at concentrations $> 0.1\%$ is considered a sensitizer.
	Mutagenicity	No ingredient present at concentrations $> 0.1\%$ is considered a mutagen.
	Carcinogenicity	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 existing conditions	None known.

12. Ecological Data

Summary

This mixture is not considered ecotoxic. In all cases prevent run-off to drains, sewers and waterways.

Supporting Data	
Aquatic Bioaccumulation Degradability Soil Terrestrial vertebrate Terrestrial invertebrate Biocidal	Sodium carbonate is not considered ecotoxic towards aquatic organisms. No data No data No evidence of soil toxicity. The LD ₅₀ (oral, rat) for sodium carbonate: 4090 mg/kg. No evidence of toxicity towards terrestrial invertebrates. no data
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.
Contaminated packaging	Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered 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 t	his product (not a dangerous good).		
UN number:	NA	Proper shipping name:	NA	
Class(es)	NA	Packing group:	NA	
Precautions:	NA	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 New Zealand Inventory of Chemicals 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	Required if > 1000kg is stored.
Certified handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Not required. (non pooling substance)
Signage	Required if > 1000kg is stored.
Location compliance certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.

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 ₅₀	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)
GHS	Globally Harmonised System of Classification and Labelling of Chemicals, 7 th 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 ₅₀	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
LC ₅₀	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
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
TWA	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
UN Number	United Nations Number
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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
Review	
Date July 2022	Reason for review Not applicable - New SDS

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 1040951.

