

1. Identification of Substance & Company

Product

Product name Sodium Bicarbonate

Product code NA

HSNO approval non hazardous Approval description non hazardous

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

Uses Raising alkalinity and pH in swimming pools

Company Details

Company Argo International Ltd
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 Email
 argo@argoint.co.nz

 Website
 argoint.co.nz

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

Approval

This product is not considered hazardous under the Hazardous Substances and New Organisms Act (HSNO), according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS Classes Hazard Statements

none

SYMBOLS

none

Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Prevention none
Response none
Storage none
Disposal none

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
sodium bicarbonate	144-55-8	99-100%

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 facilities

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

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Exposure

Swallowed The product is not considered harmful if swallowed. In case of persistent symptoms,

contact the National Poisons Centre or 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:

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.

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: No special measures are required.

Hazchem code: NA

6. Accidental Release Measures

Containment 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 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

should be kept closed in order to minimise contamination. Avoid contact with incompatible

substances as listed in Section 10.

Handling 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.

NZ Workplace Ingredient WES-TWA WES-STEL

Exposure Stds sodium bicarbonate 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 Protective eyewear is not normally necessary when using this product. However, it always

prudent to use protective eyewear if splashes are likely.

Skin 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.

Respiratory Respirator is not required under normal use. Ensure adequate natural ventilation. If product

is being used in confined conditions, the use of a mask or respirator may be preferred.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance white crystalline powder

Odour
Odour Threshold not applicable
pH alkaline
Freezing/melting point no data
Boiling Point no data
Flashpoint not applicable
Flammability non flammable

Upper & lower flammable limits No LEL or UEL

Vapour pressure negligible at normal ambient temperatures

Vapour density no data

Specific gravity/density 2.16g/cm³

Solubility soluble in water (95g/L)

Partition coefficientno dataAuto-ignition temperatureno dataDecomposition 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

and open flames.

Incompatible groups Acids, water Substance Specific none known

Incompatibility

Hazardous decomposition Carbon dioxide, carbon monoxide, sodium compounds

products

Hazardous reactions none known

11. Toxicological Information

Summary

This substance is considered non toxic. No effects anticipated.

Supporting Data

Acute Oral LD₅₀'s for Sodium bicarbonate >2,000 mg/kg.

Aspiration This substance is not considered an aspiration hazard.

Dermal LD₅₀'s for Sodium bicarbonate >2,000 mg/kg.

Inhaled No evidence of inhalation toxicity.

Eye Sodium bicarbonate is not considered to be an eye irritant. **Skin** Sodium bicarbonate is not considered to be a skin irritant.

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Chronic Sensitisation Sodium bicarbonate is not considered a sensitizer.

Mutagenicity
Carcinogenicity
Sodium bicarbonate is not considered a sensitizer.
Sodium bicarbonate is not considered a mutagen.
Sodium bicarbonate is not considered a carcinogen.

Reproductive / Sodium bicarbonate is not considered a reproductive or developmental toxicant or have

Developmental any effects on or via lactation.

Systemic Sodium bicarbonate is not considered a systemic target organ toxicant (repeated or single

exposure.

Aggravation of existing conditions

None known.

12. Ecological Data

Summary

This substance is not considered ecotoxic.

Supporting Data

Aquatic Sodium bicarbonate is not considered ecotoxic.

Bioaccumulation No data
Degradability No data

Soil No evidence of soil toxicity.

Terrestrial vertebrateThis substance is not considered harmful towards terrestrial vertebrates.
This substance is not considered harmful towards terrestrial invertebrates.
This substance is not considered harmful towards terrestrial invertebrates.

Biocidal 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.

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 this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code:NA

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: non hazardous, non hazardous. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

Specific Controls

Key requirements are:

SDS Not required (non hazardous), but best practice to have the SDS available.

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.
Tracking Not required.
Bunding & secondary containment Not required.
Signage Not required.
Location compliance certificate Not required.
Flammable zone Not required.

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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 CodeApproval non hazardous Controls, EPA. www.epa.govt.nzCAS NumberUnique Chemical Abstracts Service Registry Number

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)

LEL Lower Explosive Limit

LD₅₀ 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)

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

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

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 Reason for review
July 2022 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.

