

SAFETY DATA SHEET

Not classified as hazardous according to criteria of EPA New Zealand

Section 1 - Identification

Product Name	Sodium hydrogen carbonate
Product Code	AJA475, AJA476, BSPSL900, CHE700/BI/CAR/S, FSBS/4200, FSBS/4240, FSBS/4246, FSBBP328, FSBJ/2300, TCH47108, ALF010863, ALF014707, ALFA17005, ALFJ60092, ALF
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Recommended Use

Laboratory chemicals.

Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

Not classified as hazardous according to criteria of EPA New Zealand

GHS Classification

<u>Physical hazards</u> Based on available data, the classification criteria are not met

Health hazards

Environmental hazards Based on available data, the classification criteria are not met

Label Elements

Other information No information available

Section 3 - Composition and Information on Ingredients

Component	CAS-No	Weight %
Sodium bicarbonate	144-55-8	100

Section 4 - First Aid Measures

Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Self-Protection of the First Aider	No special precautions required.
First Aid Facilities	Eyewash, safety shower and washroom.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons No information available.

Hazardous Combustion Products

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. **Environmental Precautions** Should not be released into the environment. See Section 12 for additional Ecological Information.

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Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. **Reference to Other Sections** Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Exposure limits

The product does not contain any hazardous materials with occupational exposure limits established.

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection

Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications)

Hand Protection

Protective gloves

	9	a AUS/NZ Standard	Glove comments
Natural rubber, Nitrile See manufa	cturers -	AS/NZS 2161.1	(minimum requirement)
rubber, Neoprene, PVC. recommend	dations		

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection	Long sleeved clothing
Repiratory Protection	Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use and maintenance of repiratory protective devices
Recommended Filter type:	Particle filter (or AUS/NZ equivalent)
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Crystalline White
Physical State	Powder Solid
Odor	No information available
Odor Threshold	No data available
pH	8.4
Melting Point/Range	270 °C / 518 °F
Softening Point	No data available
Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available

Method - No information available Solid

Sodium hydrogen carbonate

Explosion Limits	No data available	
Vapor Pressure	No data available	
Vapor Density	Not applicable	Solid
Specific Gravity / Density	No data available	
Bulk Density	No data available	
Water Solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/w	ater)	
Autoignition Temperature	Not applicable	
Decomposition Temperature	No data available	
Viscosity	Not applicable	Solid
Explosive Properties	No information available	
Oxidizing Properties	No information available	
Other information		
Molecular Formula	NaHCO3	
Molecular Weight	84.01	

Section 10 - Stability and Reactivity

Reactivity	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products, Excess heat, Avoid dust formation.

Hazardous Decomposition Products None under normal use conditions.

Hazardous Polymerization Hazardous polymerization does not occur.

Section 11 - Toxicological Information

Information on 1	Toxicological	Effects
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Product Information (a) acute toxicity;	
Oral	Based on available data, the classification criteria are not met
Dermal	Based on available data, the classification criteria are not met
Inhalation	Based on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium bicarbonate	LD50 = 4220 mg/kg (Rat)		
(b) skin corrosion/irritation;	Based on available data, the c	lassification criteria are not me	et

(c) serious eye damage/irritation; (d) respiratory or skin sensitization; Respiratory Skin	Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met
(e) germ cell mutagenicity;	Based on available data, the classification criteria are not met
(f) carcinogenicity;	Based on available data, the classification criteria are not met There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; (h) STOT-single exposure;	Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met
(i) STOT-repeated exposure;	Based on available data, the classification criteria are not met
Target Organs (j) aspiration hazard;	None known. Not applicable Solid

Symptoms / effects,both acute and No information available delayed

Section 12 - Ecological Information

Ecotoxicity effects

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox		
Sodium bicarbonate	LC50: 8250 - 9000 mg/L, 96h static (Lepomis macrochirus)	EC50: 2350 mg/L/48h	EC50: 650 mg/L/120h	-		
Persistence and Degradability						
Persistence	Soluble in water, Persistence is unlikely, based on information available.					
Degradability	Not relevant for inorganic substances.					
Bioaccumulative Potential	Bioaccumulation is unlikely					
Mobility	The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils					
Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors					
Persistent Organic Pollutant	This product does not contain any known or suspected substance					
Ozone Depletion Potential	This product does not contain any known or suspected substance					
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Section 13 - Disposal Considerations

Waste from Residues/Unused Products	Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.
Contaminated Packaging	Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.
Other Information	Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations .

Section 14 - Transport Information

IMDG/IMO	Not regulated
NZS 5433:2012	Not regulated
	Not regulated
Environmental hazards	No hazards identified
Special Precautions	No special precautions required
Additional information	None known

Section 15 - Regulatory Information

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

International Inventories		X = listed	ł								
Component	NZIoC	AICS	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	KECL
Sodium bicarbonate	Х	Х	205-633-	-	Х	Х	-	Х	Х	Х	KE-3136
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Prohibition or notification/licensing Shown below are details of specific prohibition/notifications or licencing requirements when requirements they apply.

Section 16 - Other Information

This safety data sheet complies with the requirements of WorkSafe New Zealand Regulations

Legend

AICS - Australian Inventory of Chemical Substances TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List	NZIOC - New Zealand Inventory of Chemicals EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances ENCS - Japanese Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances TWA - Time Weighted Average IARC - International Agency for Research on Cancer ICAO/IATA - International Civil Aviation Organization/International Air Transport Association	KECL - Korean Existing and Evaluated Chemical Substances CAS - Chemical Abstracts Service ACGIH - American Conference of Governmental Industrial Hygienists Predicted No Effect Concentration (PNEC) IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code
MARPOL - International Convention for the Prevention of Pollution from Ships NZS 5433:2012 - Transport of Dangerous Goods on Land LD50 - Lethal Dose 50% EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit DNEL - Derived No Effect Level POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative VOC (volatile organic compound)	ADG Australian Code for the Transport of Dangerous Goods by Road and Rail OECD - Organisation for Economic Co-operation and Development LC50 - Lethal Concentration 50% ATE - Acute Toxicity Estimate RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration BCF - Bioconcentration factor PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date	28-Jun-2020
Revision Summary	Not applicable.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet