

Section 1 - Identification

Product Name	Sodium hydrogen carbonate
Product Code	AJA475, AJA476, BSPSL900, CHE700/BI/CAR/S, FSBS/4200, FSBS/4240, FSBS/4246
Address	ThermoFisher Scientific Australia Pty Ltd
	5 Caribbean Drive, Scoresby
	VICTORIA 3179, Australia
Emergency Tel.	CHEMTREC®
	03 9757 4559 or +613 9757 4559
Telephone / Fax Numbers	Tel: 1300 735 292
	Fax: 1800 067 639
E-mail address	auinfo@thermofisher.com
Recommended Use	Laboratory chemicals.

Section 2 - Hazard(s) Identification

Classification under the National Occupational Health and Safety Commission (NOHSC), Australia

Classified as not hazardous according to criteria of NOHSC

Physical hazards No hazards identified

Health hazards No hazards identified

Environmental hazards No hazards identified

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

Move 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. Obtain medical attention.
Protection of First-aiders	No special precautions required.
First Aid Facilities	Eyewash, safety shower and washroom.
Most important symptoms/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.

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. Avoid dust formation. **Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Up

Sweep up or vacuum up spillage and collect in suitable container 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. Ensure adequate ventilation. Avoid contact with skin, eyes and 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

Exposure Controls

Engineering Measures None under normal use conditions.

Eye Protection	protecto	rs for Industrial app		aland Standard AS/NZS 1337 - Eye
Hand Protection	Protectiv	ve gloves		
Glove material Natural rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness -	AUS/NZ Standard AS/NZS 2161.1	Glove comments (minimum requirement)
(Refer to manufacturer/su Ensure gloves are suitab sensitisation effects, also of cuts, abrasion.	uctions regarding permu upplier for information) le for the task: Chemic	al compatability, De	xterity, Operational conditional	vided by the supplier of the gloves. ions, User susceptibility, e.g. product is used, such as the danger
Remove gloves with care	avoiding skin contami	nation.		
Skin and body prote	-	nation. eved clothing		
·	ection Long sle on Use an <i>i</i> other sy must be and mai	eeved clothing AS/NZS 1716 appro mptoms are experie the correct fit and b	nced. To protect the wea e used and maintained in ory protective devices	e limits are exceeded or if irritation or arer, respiratory protective equipment line with AS/NZS 1715 on the use

Environmental exposure controls No information available.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Physical State	Crystalline White Powder Solid	
Odor Odor Threshold pH Melting Point/Range Softening Point Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Explosion Limits	No information available No data available 8.4 270 °C / 518 °F No data available Not applicable Not applicable Not applicable No information available No data available	Method - No information available Solid
Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents	No data available Not applicable No data available No data available Soluble in water No information available	Solid

Molecular Weight

Partition Coefficient (n-octanol/w	ater)
Autoignition Temperature	Not applicable
Decomposition Temperature	No data available
Viscosity	Not applicable
Explosive Properties	No information available
Oxidizing Properties	No information available
Other information	
Molecular Formula	NaHCO3

Solid

Section 10 - Stability and Reactivity

84.01

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 Toxicological Effects

Product Information

(a) acute toxicity;

Oral	
Dermal	
Inhalation	

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

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	t
(c) serious eye damage/irritation; (d) respiratory or skin sensitization;		classification criteria are not me	t
Respiratory	Based on available data, the c	classification criteria are not me	t
Skin	Based on available data, the c	lassification criteria are not me	t
(e) germ cell mutagenicity;	Based on available data, the c	classification criteria are not me	t
(f) carcinogenicity;	Based on available data, the c	classification criteria are not me	t
	There are no known carcinoge	enic chemicals in this product	
(g) reproductive toxicity; (h) STOT-single exposure;		classification criteria are not me classification criteria are not me	
(i) STOT-repeated exposure;	Based on available data, the c	classification criteria are not me	t
Target Organs (j) aspiration hazard;	No information available. Not applicable Solid		

Symptoms / effects,both acute and No information available delayed

Section 12 - Ecological Information

Ecotoxicity effects	Contains no substance degradable in waste w		lous to the environment	or that are not
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 Degradability Bioaccumulative Potential	Soluble in water, Pers Not relevant for inorga Bioaccumulation is un	inic substances.	ed on information availa	ıble.
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 dis	sruptors
Persistent Organic Pollutant	This product does not	contain any known or	suspected substance	
Ozone Depletion Potential	This product does not			

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	Chemical wastes should be disposed through a licensed commercial waste collection service.

Section 14 - Transport Information

IMDG/IMO	Not regulated
ADG	Not regulated
ΙΑΤΑ	Not regulated
Environmental hazards Special Precautions Additional information	No hazards identified No special precautions required None known

Section 15 - Regulatory Information

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

International Inventories		X = listed	ł								
Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	KECL
Sodium bicarbonate	Х	Х	205-633- 8	-	Х	Х	-	Х	Х	Х	Х
Standard for the Uniform Scheduling of Medicines and Poisons		Not Sche	eduled								

Prohibition or notification/licensing Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

Section 16 - Other Information

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	KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances	CAS - Chemical Abstracts Service
TWA - Time Weighted Average	ACGIH - American Conference of Governmental Industrial Hygienists
IARC - International Agency for Research on Cancer	PNEC - Predicted No Effect Concentration
ICAO/IATA - International Civil Aviation Organization/International Air Transport Association	IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code
MARPOL - International Convention for the Prevention of Pollution from Ships	ADG Australian Code for the Transport of Dangerous Goods by Road and Rail
NZS 5433:2012 - Transport of Dangerous Goods on Land	OECD - Organisation for Economic Co-operation and Development
LD50 - Lethal Dose 50%	LC50 - Lethal Concentration 50%
EC50 - Effective Concentration 50%	ATE - Acute Toxicity Estimate
WEL - Workplace Exposure Limit	RPE - Respiratory Protective Equipment
DNEL - Derived No Effect Level	NOEC - No Observed Effect Concentration
POW - Partition coefficient Octanol:Water	BCF - Bioconcentration factor
vPvB - very Persistent, very Bioaccumulative	PBT - Persistent, Bioaccumulative, Toxic
VOC - Volatile Organic Compounds	

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 Date25-Nov-2015Revision SummaryUpdate to Format.

This safety data sheet complies with the requirements of Safe Work Australia WHS Regulation

Disclaimer

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End of Safety Data Sheet