

# SAFETY DATA SHEET

Be Right<sup>™</sup>

Issue Date 26-Feb-2018 Revision Date 26-Feb-2018 Version 2.599999 Page 1/13 **1. IDENTIFICATION** Product identifier **Product Name** Sodium Carbonate Solution Other means of identification Product Code(s) 67549 Safety data sheet number M00465 Recommended use of the chemical and restrictions on use **Recommended Use** Laboratory reagent. Determination of Tannin/Lignin. Uses advised against None. **Restrictions on use** None. Details of the supplier of the safety data sheet **Manufacturer Address** 

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

#### 2. HAZARDS IDENTIFICATION

#### Classification

#### **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation

Category 2A

#### Hazards not otherwise classified (HNOC) Not applicable

Label elements

Signal word - Warning



Hazard statements

H319 - Causes serious eye irritation

#### **Precautionary statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection 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

#### Other Hazards Known

Causes mild skin irritation

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance

Not applicable

#### <u>Mixture</u>

#### Percent ranges are used where confidential product information is applicable.

Chemical name		CAS No.	Percent Range	HMRIC #	
Disodiu	497-19-8	10 - 20%	-		
4. FIRST AID MEASURES					
Description of first aid measures					
General advice	Show this safety data sheet to the docto	Show this safety data sheet to the doctor in attendance.			
Inhalation	Remove to fresh air.				
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.				
Skin contact	Wash skin with soap and water.				
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.				
Self-protection of the first aider	Avoid contact with skin, eyes or clothing.				
Most important symptoms and effects, both acute and delayed					
Symptoms	Burning sensation.				
Indication of any immediate medical attention and special treatment needed					
Note to physicians	Treat symptomatically.				
	5. FIRE-FIGHTING MEASU	IRES			
Suitable Extinguishing Media	Use extinguishing measures that are ap surrounding environment.	propriate to local circums	tances and th	e	

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

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Specific hazards arising from the chemical	No information available.
Hazardous combustion products	No information available.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## 6. ACCIDENTAL RELEASE MEASURES

U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.
Personal precautions, protective ed	quipment and emergency procedures
Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Other Information	Refer to protective measures listed in Sections 7 and 8.
Environmental precautions	
Environmental precautions	See Section 12 for additional ecological information.
Methods and material for containm	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
Reference to other sections	See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

Precautions for safe handling	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.
Conditions for safe storage, includ	ing any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Flammability class	Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational
- -	exposure limits established by the region specific regulatory bodies

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<u>Appropriate engineering controls</u> Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hand Protection	Wear suitable gloves.
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.
Skin and body protection	Wear suitable protective clothing.
General Hygiene Considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.
Thermal hazards	None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution None	Liquid		Color Odor threshold	colorless No data ava	ailable
<b>Property</b>			Values			Remarks • Method
Molecular weight	:		No data availat	ble		
рН			10.6			
Melting point/free	ezing point		~ -9 °C / 16	°F		Estimation based on theoretical calculation
Boiling point / bo	iling range		~ 100 °C / 21	12 °F		Estimation based on theoretical calculation
Evaporation rate			0.6 (water = 1)			
Vapor pressure			22.802 mm Hg	/ 3.04 kPa at 25	°C / 77 °F	Estimation based on theoretical calculation
Vapor density (ai	r = 1)		0.62 (air = 1)			
Specific gravity (	water = 1 / air = 1)		1.186			
Partition Coeffici	ent (n-octanol/wate	er)	Not applicable			
Soil Organic Carl Coefficient	bon-Water Partition	า	Not applicable			
Autoignition tem	perature		No data availat	ble		

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Decomposition temperature	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available

#### Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### **Other Information**

**Metal Corrosivity** 

#### **Steel Corrosion Rate Aluminum Corrosion Rate**

No data available No data available

Volatile Organic Compounds (VOC) Content

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Disodium carbonate	497-19-8	No data available	-

#### **Explosive properties**

Upper explosion limit Lower explosion limit		No data available No data available
Flammable properties		
Flash point		No data available
Flammability Limit in Air Upper flammability limit: Lower flammability limit:		No data available No data available
Oxidizing properties		No data available.
Bulk density		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	

## **10. STABILITY AND REACTIVITY**

Reactivity Not applicable.

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<u>Chemical stability</u> Stability	Stable under normal con	ditions.
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None None.	
Possibility of Hazardous Reactions Possibility of Hazardous Reactions		essing.
Hazardous polymerization None under normal processing.		
<u>Conditions to avoid</u> Conditions to avoid	None known based on in	formation supplied.
Incompatible materials Incompatible materials	Strong oxidizing agents,	strong acids, and strong bases.
Hazardous Decomposition Product None known based on information sup		
	11. TOXICOLOGI	CAL INFORMATION
Information on Likely Routes of Exp	oosure	

Product Information

	Inheletion	Mou aquad irritation of readiratory treat		
	Inhalation	May cause irritation of respiratory tract.		
	Eye contact	Causes serious eye irritation. May cause redness, itching, and pain.		
	Skin contact	May cause irritation. Prolonged contact may cause redness and irritation.		
	Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.		
Sy	mptoms	May cause redness and tearing of the eyes.		
	Aggravated Medical Conditions Toxicologically synergistic products	Skin disorders. Eye disorders. None known.		
	Toxicokinetics, metabolism and distribution	No information available.		
Pr	oduct Acute Toxicity Data			
	al Exposure Route	No data available		
Do	rmal Exposuro Pouto	No data available		

Product Acute Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

No data available No data available No data available No data available No data available

<u>Unknown Acute Toxicity</u> 0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Acute Toxicity Estimations (ATE)

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	19,780.00 mg/kg
ATEmix (dermal)	11,201.00 mg/kg
ATEmix (inhalation-dust/mist)	5.83 mg/L

ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

#### Ingredient Acute Toxicity Data

Oral Exposure Route	Dral Exposure Route If available, see data below							
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data			
Disodium carbonate (10 - 20%) CAS#: 497-19-8	Rat LD <sub>50</sub>	4090 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)			
<b>Dermal Exposure Ro</b>	ute			If available, see data below				
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data			
Disodium carbonate (10 - 20%) CAS#: 497-19-8	Mouse LD <sub>50</sub>	2210 mg/kg	None reported	None reported	No information available			
Inhalation (Dust/Mist	) Exposure R	oute		If available, see data below				
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data			
Disodium carbonate (10 - 20%) CAS#: 497-19-8	Rat LC <sub>50</sub>	1.15 mg/L	4 hours	None reported	IUCLID (The International Uniform Chemical Information Database)			
Inhalation (Vapor) Ex	posure Route			If available, see data below	* *			

Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below

Product Specific Target Organ Toxicity Single Exposure Data Oral Exposure Route N

Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route No data available No data available No data available No data available No data available

Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route	If available, see data below
Dermal Exposure Route	If available, see data below
Inhalation (Dust/Mist) Exposure Route	If available, see data below
Inhalation (Vapor) Exposure Route	If available, see data below
Inhalation (Gas) Exposure Route	If available, see data below

Aspiration toxicity No data available

Product Skin Corrosion/Irritation Data No data available.

#### Ingredient Skin Corrosion/Irritation Data

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Disodium carbonate (10 - 20%) CAS#: 497-19-8	Standard Draize Test	Rabbit	500 mg	24 hours	Mild skin irritant	ECHA (The European Chemicals Agency) HSDB (Hazardous Substances Data Bank)

## Product Serious Eye Damage/Eye Irritation Data

No data available.

#### Ingredient Eye Damage/Eye Irritation Data

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If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Disodium carbonate (10 - 20%) CAS#: 497-19-8	Standard Draize Test	Rabbit	100 mg	24 hours	Eye irritant	HSDB (Hazardous Substances Data Bank)

#### Sensitization Information

Product Sensitization Data Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route	No data available. No data available.
Ingredient Sensitization Data Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route	If available, see data below. If available, see data below.
Chronic Toxicity Information	
Product Specific Target Organ Toxicity Repeat Dose Data	
Oral Exposure Route	No data available.
Dermal Exposure Route	No data available.
Inhalation (Dust/Mist) Exposure Route	No data available.
Inhalation (Vapor) Exposure Route	No data available.
Inhalation (Gas) Exposure Route	No data available.
Ingradiant Spacific Target Organ Taxisity Peneat Experience	Data
Ingredient Specific Target Organ Toxicity Repeat Exposure Oral Exposure Route	If available, see data below
Dermal Exposure Route	If available, see data below
Inhalation (Dust/Mist) Exposure Route	If available, see data below
Inhalation (Vapor) Exposure Route	If available, see data below
Inhalation (Gas) Exposure Route	If available, see data below
initialation (Oas) Exposure Route	
Product Carcinogenicity Data	
Oral Exposure Route	No data available
Dermal Exposure Route	No data available
Inhalation (Dust/Mist) Exposure Route	No data available
Inhalation (Vapor) Exposure Route	No data available
Inhalation (Gas) Exposure Route	No data available
Ingredient Carcinogenicity Data	

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Disodium carbonate	497-19-8	-	-	-	-

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Product Germ Cell Mutagenicity invitro Data No data available. If available, see data below If available, see data below

Ingredient Germ Cell Mutagenicity invitro Data No data available

Product Germ Cell Mutagenicity invivo Data **Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Germ Cell Mutagenicity invivo Data **Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Product Reproductive Toxicity Data **Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Reproductive Toxicity Data **Oral Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

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No data available No data available No data available No data available No data available

If available, see data below If available, see data below

No data available No data available No data available No data available No data available

If available, see data below If available, see data below If available, see data below If available, see data below

### **12. ECOLOGICAL INFORMATION**

Ecotoxicity

Product Ecological Data

Aquatic toxicity

Fish Crustacea Algae

No data available No data available No data available

#### **Ingredient Ecological Data**

Aquatic toxicity

If available, see ingredient data below Fish Chemical name Key literature references and Exposure Species Endpoint Reported sources for data time type dose Disodium carbonate IUCLID (The International 96 hours Lepomis macrochirus LC50 300 mg/L (10 - 20%)**Uniform Chemical Information** CAS#: 497-19-8 Database) If available, see ingredient data below Crustacea **Chemical name** Exposure Species Endpoint Key literature references and Reported sources for data time type dose **IUCLID** (The International Disodium carbonate 48 Hours Daphnia magna EC50 265 mg/L (10 - 20%)Uniform Chemical Information CAS#: 497-19-8 Database) If available, see ingredient data below

Algae

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#### **Other Information**

#### Persistence and degradability

#### **Product Biodegradability Data** No data available.

#### Ingredient Biodegradability Data

Chemical name	Test method	Biodegradation	Exposure time	Results
Disodium carbonate (10 - 20%) CAS#: 497-19-8	None reported	None reported	None reported	Readily biodegradable
Butanedioic acid, 2,3-dihydroxy-[R-(R*, R*)]-, disodium salt (1 - 5%) CAS#: 868-18-8	None reported	73%	14 days	Readily biodegradable

#### **Bioaccumulation**

#### **Product Bioaccumulation Data**

No data available.

#### Partition Coefficient (n-octanol/water)

Not applicable

#### **Ingredient Bioaccumulation Data**

Chemical name	Test method	Exposure time	Species	Bioconcentrat ion factor (BCF)	Results
Disodium carbonate (10 - 20%) CAS#: 497-19-8	None reported	None reported	None reported	None reported	Does not have the potential to bioaccumula te

#### Mobility

#### Soil Organic Carbon-Water Partition Coefficient

Not applicable

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

## Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

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Contaminated packaging	Do not reuse empty containers.	
Special instructions for disposal	If permitted by regulation. Dilute to 3 to 5 times the volume with cold water. Adjust to a ph between 6 and 9 with an acid, such as sulfuric or citric. Open cold water tap completely, slowly pour the material to the drain. Dispose of material in an E.P.A. approved hazardou waste facility.	
	14. TRANSPORT INFORMATION	
U.S. DOT	Not regulated	
TDG	Not regulated	
IATA	Not regulated	
IMDG	Not regulated	
Note:	No special precautions necessary.	

#### Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

#### **15. REGULATORY INFORMATION**

National Inventories	
TSCA	Complies
DSL/NDSL	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

#### International Inventories

IECSCCompliesKECLCompliesPICCSCompliesTCSICompliesAICSComplies	EINECS/ELINCS	Complies
KECLCompliesPICCSCompliesTCSICompliesAICSComplies	ENCS	Complies
PICCSCompliesTCSICompliesAICSComplies	IECSC	Complies
TCSI Complies AICS Complies	KECL	Complies
AICS Complies	PICCS	Complies
	TCSI	Complies
NZIOC Complies	AICS	Complies
	NZIoC	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

#### US Federal Regulations

SARA 313

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Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

Chemical name	FIFRA	FDA	
Disodium carbonate	180.1234	21 CFR 184.1742	

#### **16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

## Special Comments None

#### **Additional information**

Global Automotive Declarable Substance List (GADSL) Not applicable

#### **NFPA and HMIS Classifications**

NFPA	Health hazards - 2	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 1	Flammability - 0	Physical Hazards - 0	Personal protection - X - See section 8 for more information

#### Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH ACGIH NDF		Immediately Dangerous ACGIH (American Confe no data		ental Industrial Hygienists)		
Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION						
TWA	TWA (time-weighted average)		STEL	STEL (Short Term Exposure Limit)		
MAC	Maximum Allowat	ble Concentration	Ceiling	Ceiling Limit Value		
Х	Listed		Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.		
SKN* RSP+ C M	Skin designation Respiratory sensit Carcinogen mutagen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant		
Prepared By		Hach Product Complian	ce Department			
Issue Date		26-Feb-2018				
<b>Revision Date</b>		26-Feb-2018				
<b>Revision Note</b>		None				

**Disclaimer** 

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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**End of Safety Data Sheet**