

SAFETY DATA SHEET PACKET

Product Identifier

SRM Number: 191d

SRM Name: Sodium Bicarbonate (191d-I) Sodium Carbonate (191d-II)

(pH Standard)

SRM Description:

A unit of SRM 191d consists of 25 g of sodium bicarbonate (191d-I) and 30 g of sodium carbonate (191d-II), each contained in its respective clear glass bottle. Attached are the individual Safety Data Sheets for the materials in this Standard Reference Material (SRM).

SRM 191d Parts:

pH Standard Sodium Bicarbonate (191d-I) pH Standard Sodium Carbonate (191d-II)

Company Information

National Institute of Standards and Technology Standard Reference Materials Program 100 Bureau Drive, Stop 2300 Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200 Emergency Telephone ChemTrec: FAX: 301-948-3730 1-800-424-9300 (North America) E-mail: SRMMSDS@nist.gov +1-703-527-3887 (International) Website: https://www.nist.gov/srm





SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number: 191d

SRM Name: Sodium Bicarbonate (191d-I) Sodium Carbonate (191d-II)

(pH Standard)

SRM Part: pH Standard Sodium Bicarbonate (191d-I)

Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) consists of two components, each prepared to ensure high purity and uniformity: Sodium Bicarbonate, NaHCO₃ (191d-I); and Sodium Carbonate, Na₂CO₃ (191d-II). A unit of SRM 191d consists of 25 g of sodium bicarbonate (191d-I) and 30 g of sodium carbonate (191d-II), each contained in its respective clear glass bottle. This SRM is intended for use in preparing solutions for calibrating electrodes for pH measuring systems.

Company Information

National Institute of Standards and Technology Standard Reference Materials Program 100 Bureau Drive, Stop 2300 Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200 Emergency Telephone ChemTrec: E-mail: SRMMSDS@nist.gov 1-800-424-9300 (North America) Website: https://www.nist.gov/srm +1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Note: This SDS addresses the classification for the sodium bicarbonate material, SRM 191d-I; see additional SDS for the classification for the sodium carbonate material, 191d-II.

Classification

Physical Hazard: Not classified. Health Hazard: Not classified.

Label Elements Symbol: No symbol.

Signal Word: No signal word.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Sodium bicarbonate

Other Designations: Baking soda; bicarbonate of soda; carbonic acid, monosodium salt; sodium hydrogen carbonate;

CHNaO3

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Sodium bicarbonate	144-55-8	205-633-8	100

4. FIRST AID MEASURES

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water for at least 15 minutes. Thoroughly clean and dry contaminated clothing before reuse.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If a large amount is swallowed, get medical attention.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Negligible fire hazard. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:

Suitable: Use extinguishing agents appropriate for surrounding fire.

Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal.

7. HANDLING AND STORAGE

Safe Handling Precautions: Minimize dust generation. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances (see Section 10, "Stability and Reactivity").

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: No occupational exposure limits have been established. The exposure limits for Particulates Not Otherwise Regulated are applicable.

OSHA (PEL): 15 mg/m³ (TWA, total particulates)

5 mg/m³ (TWA, respirable particulates)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:				
Appearance (physical state, color, etc.):	white granules, powder			
Molecular Formula:	NaHCO ₃			
Molar Mass (g/mol):	84.01			
Odor:	odorless			
Odor threshold:	not available			
pH (solution):	8.3 (0.84 % solution)			
Evaporation rate:	not applicable			
Melting point/freezing point (°C):	not available			
Relative Density (g/mL):	2.159			
Vapor Pressure (mmHg):	not applicable			
Vapor Density (air = 1):	not applicable			
Viscosity (cP):	not applicable			
Solubility(ies):	water soluble (10 %); slightly soluble: alcohol			
Partition coefficient (n-octanol/water):	not available			
Particle Size:	not available			
Thermal Stability Properties:				
Autoignition Temperature (°C):	not applicable			
Thermal Decomposition (°C):	not available			
Initial boiling point and boiling range (°C):	not applicable			
Explosive Limits, LEL (Volume %):	not applicable			
Explosive Limits, UEL (Volume %):	not applicable			
Flash Point (°C):	not applicable			
Flammability (solid, gas):	not available			
10. STABILITY AND REACTIVITY				
Reactivity: Stable at normal temperatures and pressu	re.			
Stability: X Stable U	nstable			
Possible Hazardous Reactions: None listed.				
Conditions to Avoid: None reported.				
Incompatible Materials: Acids, combustible materials, metals.				
Fire/Explosion Information: See Section 5, "Fire Fighting Measures".				
Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.				
Hazardous Polymerization: Will Occur X Will Not Occur				
11. TOXICOLOGICAL INFORMATION				
Route of Exposure: X Inhalation	Skin X Ingestion			
Symptoms Related to the Physical, Chemical and Taggravate high blood pressure, and kidney disorders.	Toxicological Characteristics: Exposure may cause irritation,			

SRM 191d

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: Dust may cause irritation.

Skin Contact: Prolonged contact may cause slight irritation.

Eye Contact: May cause irritation.

Ingestion: Ingestion of this material may cause irritation of the mouth, esophagus, and stomach. Carbon dioxide gas may be released causing distention, belching, and possible rupture of the stomach. Ingestion of up to 140 g per day for 3 weeks may result in fluid retention.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified. Rat, Oral LD50: 4220 mg/kg

Skin Corrosion/Irritation: Not classified. Human, Skin (mild): 30 mg (3 d)

Serious Eye Damage/Eye Irritation: Not classified.

Rabbit, Eyes (mild): 100 mg (30 s)

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen

Yes X No

Sodium bicarbonate is not listed by IARC, NTP or OSHA as a carcinogen.

Reproductive Toxicity: Not classified.

Mouse, Intraperitoneal TDLo: 40 mg/kg (pregnant 7 d)

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.

Specific Target Organ Toxicity, Repeated Exposure: Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data:

Fish: bluegill (Lepomis macrochirus) LC50 (static): 8250 mg/L to 9000 mg/L (96 h)

Invertebrate: water flea (Daphnia magna) EC50: 2350 mg/L (48 h)

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: No. CHRONIC HEALTH: No. FIRE: No. REACTIVE: No. PRESSURE: No.

State Regulations:

California Proposition 65: Not listed.

U.S. TSCA Inventory: Listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:

WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 09 December 2024

Sources: ChemAdvisor, Inc., SDS *Sodium Bicarbonate*, 09 December 2015.

Center for Disease Control (CDC), NIOSH Pocket Guide to Chemical Hazards, *Particulates Not Otherwise Regulated*, available at https://www.cdc.gov/niosh/npg/npgd0480.html (accessed Dec 2024).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists	NIOSH	National Institute for Occupational Safety and Health
ALI	Annual Limit on Intake	NIST	National Institute of Standards and Technology
CAS	Chemical Abstracts Service	NRC	Nuclear Regulatory Commission
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CEN	European Committee for Standardization	NTP	National Toxicology Program
CERCLA	Comprehensive Environmental Response,	OSHA	Occupational Safety and Health Administration
	Compensation, and Liability Act		
CFR	Code of Federal Regulations	PEL	Permissible Exposure Limit
CPSU	Coal Mine Dust Personal Sample Unit	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial	RQ	Reportable Quantity
	Chemical Substances		
EPCRA	Emergency Planning and Community Right-to-Know	RTECS	Registry of Toxic Effects of Chemical Substances
	Act		
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transport Association	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
ISO	International Organization for Standardization	STEL	Short Term Exposure Limit
LC50	Lethal Concentration, 50 %	TDLo	Toxic Dose Low
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
MSHA	Mine Safety and Health Administration	UEL	Upper Explosive Limit
	Time Surery and Itemin I tulinibution	WHMIS	Workplace Hazardous Materials Information System
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Disclaimer: The NIST SDS information is specific to the NIST product and is believed to be correct, based upon our current knowledge. The SDS may not necessarily be all inclusive and should be used only as a guide. NIST does not guarantee the accuracy or completeness of this information. The only official source for specific values and uncertainties is the certificate or report.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; e-mail srmmsds@nist.gov; or via the Internet at https://www.nist.gov/srm.



SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number: 191d

SRM Name: Sodium Bicarbonate (191d-I) Sodium Carbonate (191d-II)

(pH Standard)

SRM Part: pH Standard Sodium Carbonate (191d-II)

Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) consists of two components, each prepared to ensure high purity and uniformity: Sodium Bicarbonate, NaHCO₃ (191d-I); and Sodium Carbonate, Na₂CO₃ (191d-II). A unit of SRM 191d consists of 25 g of sodium bicarbonate (191d-I) and 30 g of sodium carbonate (191d-II), each contained in its respective clear glass bottle. This SRM is intended for use in preparing solutions for calibrating electrodes for pH measuring systems. This SDS addresses the sodium carbonate material, SRM 191d-II.

Company Information

National Institute of Standards and Technology Standard Reference Materials Program 100 Bureau Drive, Stop 2300 Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200 Emergency Telephone ChemTrec: E-mail: SRMMSDS@nist.gov 1-800-424-9300 (North America) Website: https://www.nist.gov/srm +1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Note: This SDS addresses the classification for the sodium carbonate material, 191d-II; see additional SDS for the classification for the sodium bicarbonate material, SRM 191d-I.

Classification

Physical Hazard: Not classified.

Health Hazard: Serious Eye Damage/Eye Irritation Category 2A

Label Elements Symbol



Signal Word: WARNING

Hazard Statement(s):

H319 Causes serious eye irritation.

Precautionary Statement(s):

P264 Wash hands thoroughly after handling.

P280 Wear eye 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 attention.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Sodium carbonate

Other Designations: Bisodium carbonate; carbonic acid, disodium salt; soda ash; calcined soda

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Sodium carbonate	497-19-8	207-838-8	100

4. FIRST AID MEASURES

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water for at least 15 minutes. Thoroughly clean and dry contaminated clothing before reuse.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If swallowed, drink plenty of water, do not induce vomiting. Get immediate medical attention.

Most Important Symptoms/Effects, Acute and Delayed: May irritate the eyes and skin.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Negligible fire hazard. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:

Suitable: Regular dry chemical, carbon dioxide, water, regular foam.

Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal.

7. HANDLING AND STORAGE

Safe Handling Precautions: Minimize dust generation. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances (see Section 10, "Stability and Reactivity").

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: No occupational exposure limits have been established. The exposure limits for Particulates Not Otherwise Regulated are applicable.

OSHA (PEL): 15 mg/m³ (TWA, total particulates)

5 mg/m³ (TWA, respirable particulates)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties	
Appearance (physical state, color, etc.):	colorless to white, hygroscopic, crystalline powder
Molecular Formula:	Na_2CO_3
Molar Mass (g/mol):	105.99
Odor:	odorless
Odor threshold:	not available
pH (solution):	11.5 (1 % aqueous solution)
Evaporation rate:	not applicable
Melting point/freezing point (°C):	851 (1564 °F)
Specific Gravity (water = 1):	2.536
Vapor Pressure (mmHg):	not applicable
Vapor Density (air = 1):	not applicable
Viscosity (cP):	not applicable
Solubility(ies):	water solubility 7.1 % at 0 °C; soluble: glycerol;
	insoluble in alcohol and acetone
Partition coefficient (n-octanol/water):	not available
Particle Size:	not available
Thermal Stability Properties	
Autoignition Temperature (°C):	not applicable
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range:	decomposes
Explosive Limits, LEL (Volume %):	not applicable
Explosive Limits, UEL (Volume %):	not applicable
Flash Point (°C):	not applicable
Flammability (solid, gas):	not available
10. STABILITY AND REACTIVITY	
Reactivity: Stable at normal temperatures and pres	sure.
Stability: X Stable	Unstable
Possible Hazardous Reactions: May react with ev	rolution of heat on contact with water.
Conditions to Avoid: Avoid heat, flames, sparks a water supplies and sewers.	nd other sources of ignition. Avoid generating dust. Keep out of
Incompatible Materials: Acids, metals, combustible	ole materials, halogens, reducing agents.
Fire/Explosion Information: See Section 5, "Fire	Fighting Measures".
Hazardous Decomposition: Thermal decomposition	on will produce oxides of sodium and carbon.
Hazardous Polymerization: Will Occur	X Will Not Occur

11. Toxicolog	ICAL IN	FORMATION				
Route of Exposure:	X	Inhalation	X	Skin	X	_ Ingestion
Symptoms Related t	o the Phy	ysical, Chemical	and To	xicological	l Characteristi	cs: May irritate the eyes and skin
Potential Health Eff	ects (Acu	ite, Chronic and	Delayed	i):		
						coughing, shortness of breath, an ation of the nasal septum.
cause irritation,	blistering		eated or p	prolonged	exposure may	lness. Concentrated solutions ma cause dermatitis and possible "sod ed exposures.
carbonate is suf	ficiently a ly to caus	alkaline to dama	ge the co	rneal epith	elium, but if pi	blurred vision. In solution, sodiur romptly flushed from the eyes wit xposure to irritants in general ma
exposure to sma throat and pain	all amoun . It may	nts. Ingestion of cause gastrointe	large an estinal di	nounts may sturbances	y cause corrosions such as nauso	rse effects have been reported from on of the gastric mucosa with sorea, vomiting, abdominal pain, an oppoximately 30 g.
Numerical Measures	s of Toxic	city:				
Rat, Oral LD	on LC50: 050: 4090	2300 mg/m ³ (2	h)			
Skin Corrosion/ Rabbit, Dern		n: Not classified): 500 mg (24 h)				
	s (mild): s (modera	100 mg (rinse 30 te): 100 mg (24	s)			
Respiratory Sen	sitizatior	1: Not classified	; no data	available.		
Skin Sensitizatio	n: Not c	classified; no data	a availab	le.		
Germ Cell Muta	genicity	: Not classified;	no data a	vailable.		
Carcinogenicity	: Not cla	ssified.				
		ogen/Potential Control of the contro	_		Yes a carcinogen.	X No
Reproductive To Mouse, Intra	•	Not classified. DLo: 84 800 ng	/kg (preg	nant 4 d)		
Specific Target	Organ To	oxicity, Single E	xposure	: Not class	sified; no data a	available.
Specific Target	Organ To	oxicity, Repeate	d Expos	ure: Not o	classified; no da	ata available.
Aspiration Haza	ırd: Not	classified; no da	ta availal	ole.		
12. ECOLOGICA	L INFOR	RMATION				
Ecotoxicity Data:						
Fish Toxicity: Invertebrate:		l (<i>Lepomis macro</i> lea (<i>Daphnia ma</i>				
Persistence and Degr	radability	y: No data availa	able.			
Bioaccumulative Pot	ential: N	No bioaccumulati	on.			
Mobility in Soil: No	data avai	ilable				

SRM 191d

Other Adverse effects: No data available.

Part: pH Standard Sodium Carbonate (191d-II)

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262, Hazardous Waste Number: D003.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: Yes.
CHRONIC HEALTH: No.
FIRE: No.
REACTIVE: Yes.
PRESSURE: No.

State Regulations:

California Proposition 65: Not listed.

U.S. TSCA Inventory: Listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:

WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 09 December 2024

Sources: ChemAdvisor, Inc., SDS *Sodium Carbonate*, 09 December 2015.

Center for Disease Control (CDC), NIOSH Pocket Guide to Chemical Hazards, *Particulates Not Otherwise Regulated*, 04 April 2011, available at https://www.cdc.gov/niosh/npg/npgd0480.html (accessed Dec 2024).

PubChem Database, National Library of Medicine, *Sodium Carbonate* CAS# 497-19-8, Full Record, available at https://pubchem.ncbi.nlm.nih.gov/compound/10340 (accessed Dec 2024).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial	NIOSH	National Institute for Occupational Safety and
	Hygienists		Health
ALI	Annual Limit on Intake	NIST	National Institute of Standards and Technology
CAS	Chemical Abstracts Service	NRC	Nuclear Regulatory Commission
CEN	European Committee for Standardization	NTP	National Toxicology Program
CERCLA	Comprehensive Environmental Response,	OSHA	Occupational Safety and Health Administration
	Compensation, and Liability Act		•
CFR	Code of Federal Regulations	PEL	Permissible Exposure Limit
CPSU	Coal Mine Dust Personal Sample Unit	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial	RQ	Reportable Quantity
	Chemical Substances		
EPCRA	Emergency Planning and Community Right-to-Know	RTECS	Registry of Toxic Effects of Chemical Substances
	Act		ç ;
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transport Association	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
ISO	International Organization for Standardization	STEL	Short Term Exposure Limit
LC50	Lethal Concentration, 50 %	TDLo	Toxic Dose Low
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPO	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
MSHA	Mine Safety and Health Administration	UEL	Upper Explosive Limit
	Time surely and Ireal Ir	WHMIS	Workplace Hazardous Materials Information System
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Disclaimer: The NIST SDS information is specific to the NIST product and is believed to be correct, based upon our current knowledge. The SDS may not necessarily be all inclusive and should be used only as a guide. NIST does not guarantee the accuracy or completeness of this information. The only official source for specific values and uncertainties is the certificate or report.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; e-mail srmmsds@nist.gov; or via the Internet at https://www.nist.gov/srm.