



SAFETY DATA SHEET

| Preparation Date: 01/12/2015 | Revision Number: G' | |
|--|---|--------------------|
| Product identifier | | |
| Product code: Product Name: | S1145 SODIUM BICARBONATE, POWDER, REAGENT, | ACS |
| Other means of identification | | |
| Synonyms: | Bicarbonate of soda; Sodium acid carbonate; Monhydrogen carbonate; Carbonic acid monosodium s | |
| CAS #: | 144-55-8 | an, Daning Coda |
| RTECS# | VZ0950000 | |
| CI#: | Not available | |
| Recommended use of the cher | nical and restrictions on use | |
| Recommended use: | In foods. Antacid. | |
| Uses advised against | No information available | |
| Supplier: | Spectrum Chemicals and Laboratory Products, Inc 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000 | : . |
| Order Online At: | https://www.spectrumchemical.com | |
| Emergency telephone number Contact Person: Contact Person: | Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) Ibad Tirmiz (East Coast) | |
| | 2. HAZARDS IDENTIFICATION | |
| Classification | | |
| Olassification | | |
| This chemical is not considered haza | ardous by the 2012 OSHA Hazard Communication Standard | (29 CFR 1910.1200) |
| Not a dangerous substance or mixture | re according to the Globally Harmonized System (GHS) | |
| Label elements | | |
| Not classified | | |
| | | |

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Product code: S1145 **Product name:** SODIUM BICARBONATE, POWDER, REAGENT,

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % | Trade Secret |
|--------------------|----------|----------|--------------|
| Sodium Bicarbonate | 144-55-8 | 100 | * |
| 144-55-8 | | | |

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin irritation. Thirst. Abdominal pain. gastroenteritis. May cause metabolic

acidosis. Alkalosis. Coughing. Sneezing. May cause central nervous system effects.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides, sodium oxides

Specific hazards: No information available.

Special Protective Actions for Firefighters

Product code: S1145 **Product name:** SODIUM BICARBONATE, POWDER, REAGENT,

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal

protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning upSweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Moisture sensitive. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong acids. Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

| Components | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|-------------------------------|------|-------|-------|------------|
| | None | None | None | None |
| Sodium Bicarbonate - 144-55-8 | | | | |

Canada

Product code: S1145

| Components | Alberta | British Columbia | Ontario | Quebec |
|------------|---------|------------------|---------|--------|
| - | | | | |

| | None | None | None | None |
|-------------------------------|------|------|------|------|
| Sodium Bicarbonate - 144-55-8 | | | | |

Australia and Mexico

| Components | Australia | Mexico |
|--------------------|-----------|--------|
| Sodium Bicarbonate | None | None |
| 144-55-8 | | |

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Product code: S1145

Eye protection: Goggles. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Effective dust mask. Wear respirator with dust filter..

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid. Crystalline powder. Powder. White.

Odor:TasteFormula:Odorless.Saline.NaHCO3

Molecular/Formula weight:Flash point (°C):Flashpoint (°C/°F):84.01No data availableNo information available.

Flash Point Tested according to: Lower Explosion Limit (%): Upper Explosion Limit (%):

Not available No information available No information available

Autoignition Temperature (°C/°F): pH: Melting point/range(°C/°F):

No information available No information available No information available

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): Specific gravity: 50 deg C (decomposes). Specific gravity: 2.159-2.2 at 20 deg. C

loses carbon dioxide at 50 deg C and at

100 deg C it is converted to sodium

carbonate

Density (g/cm3): Vapor pressure @ 20°C (kPa):

No information available 0.98 g/cm3 at 20 deg. C. No information available

Evaporation rate: Vapor density: VOC content (g/L):
No information available No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Very soluble in water

Solubility in water = 6.4, 7.6, 8.7, 10.0, 11.3, 12.7, 14.2, 16.5, and 19.1 g/100g solution at 0, 10, 20, 30, 40, 50, 60, 80, and 100 deg C, respectively; Solubility in water = 6.9, 8.2, 9.6, 11.1, 12.7, 14.5, 16.5, 19.7, and 23.6 g/100g H2O at 0, 10, 20, 30, 40, 50, 60, 80, and 100 deg

C, respectively Insoluble in Ethanol

10. STABILITY AND REACTIVITY

Reactivity

Reactive with strong acids

Reacts with acids to yield Carbon dioxide

Dangerous reaction with monoammonium phosphate or a sodium-potassium alloy.

Reactive with oxidizing agents

Chemical stability

Stability: Stable at normal conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials. Exposure to moisture.

Incompatible Materials: Strong acids. Oxidizing agents.

Product code: S1145 Product name: SODIUM 5/12

BICARBONATE, POWDER, REAGENT,

Hazardous decomposition products: Carbon oxides. Sodium oxides.

Other Information

Corrosivity: Non-corrosive in the presence of glass

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Sodium Bicarbonate - 144-55-8

LD50/oral/rat = 4220 mg/kg Oral LD50 Rat

LD50/oral/mouse = 3360 mg/kg Oral LD50 Mouse

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 4220mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 3660mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: S1145

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion Symptoms of overexposure to Sodium Bicarbonate include thirst, abdominal pain,

gastroenteritis, and inflammation of the digestive tract

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Repeated or prolonged skin contact may cause irritation, drying or cracking of the

skin.

Ingestion and Inhalation: Chronic toxicity usually occurs within 4 to 10 days following ingestion of very large amounts. Repeated or prolonged ingestion or inhalation of large amounts may cause metabolic abnormalities, and sodium retention. Metabolic

abnormalities such as acidosis, hypernatremia, hypochloremia, alkalosis, hypocalcemia, or sodium retention may affect the blood, kidneys, respiration (cyanosis, apnea secondary to metabolic acidosis or pulmonary edema), and

cardiovascular system (tachycardia, hypotension).

Severe toxicity may also affect behavior/central nervous system/nervous system. Neurological changes may result from metabolic abnormalities. These may include fatigue, irritability, dizziness, mental confusion, paresthesia, seizures, tetany,

cerebral edema

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

| Components | ACGIH - Carcinogens | IARC | NTP | OSHA HCS - Carcinogens | Australia - Prohibited Carcinogenic Substances | Australia - Notifiable Carcinogenic Substances |
|--------------------|------------------------|------------|------------|---------------------------|--|--|
| Sodium Bicarbonate | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

Reproductive toxicity No data is available

Reproductive Effects:No information availableDevelopmental Effects:No information availableTeratogenic Effects:No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product code: S1145

Product name: SODIUM BICARBONATE, POWDER, REAGENT,

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: Aquatic environment.

Sodium Bicarbonate - 144-55-8

Freshwater Fish Species Data: 8250 - 9000 mg/L LC50 Lepomis macrochirus 96 h static 1

Water Flea Data: 2350 mg/L EC50 Daphnia magna 48 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

| Components | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|--------------------|---------------------------|---------------------------|------------------------------|------------------------|
| Sodium Bicarbonate | None | None | None | None |

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available **Hazard Class:** No information available

Subsidiary Risk: Not applicable

Packing Group: None

ERG No: No information available

Marine Pollutant No data available

DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Description:
No information available
No information available
No information available
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:

No information available
No information available

Product code: S1145 **Product name:** SODIUM BICARBONATE, POWDER, REAGENT,

14. TRANSPORT INFORMATION

Subsidiary Risk:
Classification Code:
Description:
No information available
No information available
No information available
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name: No information available **Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Description:** No information available **IMDG Page:** No information available **Marine Pollutant** No information available MFAG: No information available **Maximum Quantity:** No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

15. REGULATORY INFORMATION

International Inventories

| Components | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | CHINA | Australia (AICS) | EINECS-No. |
|--------------------|-----------|----------------------|------------------------|---------------------|---------|---------------------|-------------------|
| Sodium Bicarbonate | Present | Present KE- 31360 | Present | Present (1)- 164 | Present | Present | Present 205-633-8 |

U.S. Regulations

Sodium Bicarbonate

Product code: S1145

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1736

Product name: SODIUM BICARBONATE, POWDER, REAGENT,

Sodium Bicarbonate

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components | Carcinogen | Developmental Toxicity | | Female Reproductive Toxicity: |
|--------------------|------------|------------------------|------------|-------------------------------|
| Sodium Bicarbonate | Not Listed | Not Listed | Not Listed | Not Listed |

CERCLA/SARA

| | Substances and their | Hazardous | Section 302 Extremely Hazardous Substances and RQs | Chemical Category | Section 313 - Reporting de minimis |
|--------------------|----------------------|-----------|--|--------------------------|------------------------------------|
| Sodium Bicarbonate | None | None | None | None | None |

U.S. TSCA

| • | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting | |
|---|---|--|--|
| | | Not Applicable | |

Canada

WHMIS hazard class:

Non-controlled

Sodium Bicarbonate

Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

| Sodium Bicarbonate Present | Not Listed |
|----------------------------|------------|

| Components | CEPA Schedule I - Toxic Substances | CEPA - 2010 Greenhouse Gases Subject to Manditory |
|--------------------|------------------------------------|---|
| | | Reporting |
| Sodium Bicarbonate | Not listed | Not listed |

EU Classification

R-phrase(s)

not determined none

S -phrase(s)

not determined

Product code: S1145 **Product name:** SODIUM BICARBONATE, POWDER, REAGENT,

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| Components | Classification | Concentration Limits: | Safety Phrases |
|--------------------|----------------|-----------------------|----------------|
| Sodium Bicarbonate | | No information | |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Not dangerous

16. OTHER INFORMATION

Product code: S1145

| 16. OTHER INFORMATION | | |
|-----------------------|------|-------------------------------|
| NFPA | HMIS | Personal Protective Equipment |



| Health Hazard | 1 |
|---------------|---|
| Fire Hazard | 0 |
| Reactivity | 0 |







Preparation Date:01/12/2015Revision Date:1/12/2015Prepared by:Sonia Owen

Disclaimer:

Product code: S1145

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet