



Sodium Carbonate Decahydrate/Deca

Revision Date: 03/07/2022

SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 PRODUCT IDENTIFIERS

Product Name:	Sodium Carbonate Decahydrate
Chemical Name:	Sodium Carbonate Decahydrate
Synonyms/Common Names:	Soda, Deca, Sodium Carbonate Decahydrate
CAS Number(s):	6132-02-1
EC Number:	207-838-8

1.2 RELEVANT IDENTIFIED USES

- Laboratory Chemicals
- Manufacture of Substances

1.3 MANUFACTURER

Şişecam Wyoming LLC
254 County Road 4-6
Green River, Wyoming 82935
United States
Telephone Number: (307) 875-2600

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Response Information Provider:	CHEMTREC
Within the United States Emergency Telephone Number:	1-800-424-9300
Outside the United States/International Emergency Telephone Number:	+1-703-527-3887

2 HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS Classification in accordance with 29 CFR 1910 (OSHA HazCom Standard):

Eye Irritation (Category 2A), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Pictograms:



Irritant

Signal Word: Warning

Hazard Statement(s):

H319 Causes serious eye irritation.

Precautionary Statement(s):

P264 Wash skin thoroughly after handling.

P280 Wear 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.

2.3 HAZARDS NOT OTHERWISE CLASSIFIED OR NOT COVERED BY GHS

H402 Harmful to aquatic life.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Synonyms: Unrefined Deca, Soda, Deca

Formula: Na_2CO_3 and $10\text{H}_2\text{O}$

Sodium Carbonate Decahydrate CAS-No. 6132-02-1

4 FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES

General – check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation - Remove the victim into fresh air. Respiratory problems: consult doctor/medical service.

After skin contact - Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

After eye contact - Rinse immediately with plenty of water for at least 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion - Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if victim is unwell.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

4.2.1 Acute Symptoms

If inhaled – Dry/sore throat. Coughing. Slight irritation. Exposure to high concentrations: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties.

4.2.2 Delayed Symptoms

No effects known.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data available.

5 FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Not combustible. Use extinguishing method suitable for surrounding fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Carbon dioxide is formed upon combustion.

5.3 ADVICE FOR FIREFIGHTERS

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Gloves. Safety glasses. Protective clothing. Dust cloud protection and heat/fire exposure: Compressed air respirator.

6 ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent any mixture with an acid into the sewer/drain system. Do not flush into surface water or sanitary sewer system.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep up and shovel into suitable containers for disposal. Keep in properly labeled containers. Keep containers closed.

6.4 REFERENCE TO OTHER SECTIONS

For disposal, refer to section 13.

7 HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Use mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in original container that is properly labeled with a tightly closed lid. Keep away from incompatible materials. Keep in a dry place.

7.3 SUITABLE PACKAGING MATERIAL

No data available

7.4 INCOMPATIBLE PRODUCTS

Aluminum, powdered aluminum, and acids.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

Contains no substances with occupational exposure limit values.

8.2 EXPOSURE CONTROLS

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. When developing safe handling procedures, do not overlook the need to clean equipment and piping system for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13 Disposal Considerations. Assistance with selection, use, and maintenance of worker protection equipment is generally available from equipment manufacturers.

Engineering Measures: Ensure adequate ventilation. Provide appropriate exhaust ventilation at machinery.

8.3 PERSONAL PROTECTIVE EQUIPMENT

Individual Protection Measures:

Respiratory Protection: Effective dust mask. Use only respiratory protection that conforms to international/national standards. Use NIOSH approved respiratory protection.

Hand Protection: Wear suitable gloves, such as butyl rubber or PVC, which have good resistance. Gloves must be inspected prior to use. Wash and dry hands.

Eye Protection:	Chemical resistant goggles or other safety glasses with side shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin Protection:	Protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Eye wash bottles or eyewash stations in compliance with applicable standards. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practices.

8.4 CONTROL OF ENVIRONMENTAL EXPOSURE

Prevent leakage or spillage if safe to do so. Do not let product enter drains. See section 6.2, 6.3, and 13 for more information.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance:</i>	<i>Form:</i>	Crystalline
	<i>Physical State:</i>	Solid
	<i>Color:</i>	White, Gray, or Black
<i>Odor:</i>		Odorless, musty
<i>Odor Threshold:</i>		No data available
<i>pH:</i>		11.9 at 100% net/wt. %; alkaline
<i>Boiling Point:</i>		105°C (221°F) at 76 mm. Hg
<i>Flash Point:</i>		Not Applicable
<i>Evaporative Rate:</i>		No data available
<i>Flammability (solids, gas):</i>		No data available
<i>Flammability (liquids):</i>		No data available
<i>Flammability/Explosive Limit:</i>		The product is not flammable or explosive
<i>Autoignition temperature:</i>		No data available
<i>Vapor Pressure:</i>		No data available
<i>Vapor Density:</i>		No data available
<i>Density (relative):</i>		1.440 g/cm ³ at 20°C (68°F)
<i>Solubility:</i>		ca. 143 g/l at 20°C (68°F)
<i>Partition coefficient:</i>		No data available
<i>Viscosity:</i>		No data available
<i>Explosive properties:</i>		no data available
<i>Oxidizing properties:</i>		Not considered as oxidizing
<i>Molecular weight:</i>		286.14 g/mol

9.2 PHYSICAL HAZARDS

No data available.

10 STABILITY AND REACTIVITY

10.1 REACTIVITY

None under normal use conditions.

10.2 CHEMICAL STABILITY

Decomposes by reaction with strong acids. Stable under recommended storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

None under normal processing.

10.4 CONDITIONS TO AVOID

Extreme Heat: Hygroscopic

Protect from moisture.

Mixing of acid and sodium sesquicarbonate could cause CO₂ evolution.

10.5 INCOMPATIBLE MATERIALS

Aluminum, Flourine, Humid Air, Moisture, Sulfuric Acid, Acids, Magnesium, Phosphorus, Pentoxide.

10.6 HAZARDOUS POLYMERIZATION

Not applicable.

11 TOXOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

11.1.1 Acute toxicity

LD50 Oral - rat – 2,800 mg/kg

LD50 Dermal – rabbit >2,000 mg/kg

LD50 Inhalation - rat – 2.30 mg/l, 2 hour exposure time

11.1.2 Corrosion/irritation

Skin - rabbit

Result: Mild skin irritation – 24 hours

11.1.3 Serious eye damage/eye irritation

Eyes - rabbit

Result: Severe eye irritation – 24 hours

11.1.4 Respiratory or skin sensitization

Inhalation - no data available

Skin Sensitization: no data available

11.1.5 Germ cell mutagenicity

No data available.

11.1.6 Carcinogenicity

No data available. This product does not contain any ingredient designated as probable or suspected human carcinogen by NTP, IARC, OSHA, or ACGIH.

11.1.7 Reproductive toxicity

No data available.

11.1.8 Specific target organ toxicity – single exposure

No data available.

11.1.9 Specific target organ toxicity – repeated exposure

No data available.

11.1.10 Chronic effects from short and long-term exposure

On continuous, repeated exposure/contact: red skin, dry skin, tingling/irritation of the skin, affection of the nasal septum.

12 ECOLOGICAL INFORMATION

12.1 TOXICITY

Acute Toxicity to Fish:

Fish, various species	LC50 – 96 hours: 30 – 1,200 mg/l
Gambusia affinis (mosquito fish)	LC50 – 96 hours: 7,550 mg/l

Acute Toxicity to Daphnia and other aquatic invertebrates:

Crustaceans, Daphnia sp.	LC50 – 48 hours: 115 – 150 mg/l
Daphnia magna (water flea)	LC50 – 48 hours: 2,350 mg/l

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: Not applicable.

Abiotic degradability:

Stability in water: Hydrolysis with carbonic acid/bicarbonate/carbonate as degradation products, acid/base equilibrium as a function of pH.

Photodegradation: Not applicable.

12.3 BIOACCUMILATIVE POTENTIAL

Low potential for bioaccumulation.

12.4 MOBILITY IN SOIL

Low potential for absorption in soil.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

PBT/vPvB assessment not available as chemical assessment is not required/not conducted.

12.6 OTHER ADVERSE EFFECTS

No data available. Ecological injuries are not known or expected under normal use.

13 DISPOSAL CONSIDERATIONS

13.1 WASTE DISPOSAL

Remove waste in accordance with local and/or national regulations. Contact a licensed, permitted professional waste disposal service to dispose of this material. Waste shall be managed responsibly. Do not discharge into drains.

Waste Code of Unused Material, if discarded:

EPA – not considered hazardous waste

RCRA (40 CFR 302) – not considered hazardous waste

Advice on cleaning and disposing of packaging:

Clean container with water. Dispose of rinse water in accordance with local and national regulations. Empty clean containers are to be reused in conformity with regulations.

14 TRANSPORT INFORMATION

14.1 UNITED STATES DEPARTMENT OF TRANSPORTATION (DOT)

Not regulated.

14.2 INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

Not regulated.

14.3 INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

Not regulated.

14.4 TDG/AND/RID/ADR

Not regulated.

Note: The above regulatory prescriptions are valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

15 REGULATORY INFORMATION

15.1 SARA 302 COMPONENTS

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. This material does not contain any components with a SARA Title III, Section 302 RQ.

15.2 SARA 313 COMPONENTS

This material does not contain any chemical with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.3 SARA 311/312 HAZARDS

Acute Health Hazard
Chronic Health Hazard

15.4 SARA 304 RQ

This material does not contain any components with a SARA Title III, Section 304 EHS RQ.

15.5 U.S. EPA CERCLA HAZARDOUS SUBSTANCE AND REPORTABLE QUANTITIES

This material does not contain any components with a CERCLA RQ.

15.6 PENNSYLVANIA RIGHT TO KNOW COMPONENTS

This material does not contain any components listed on the Pennsylvania Right to Know Hazardous Substance List.

15.7 NEW JERSEY RIGHT TO KNOW COMPONENTS

This material does not contain any components listed on the New Jersey Right to Know Hazardous Substance List.

15.8 WHMIS CLASSIFICATION: C

This material is an oxidizing material.

16 OTHER INFORMATION

16.1 FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTION 2 AND 3

Eye Irrit.	Eye Irritation
H319	Causes serious eye irritation
H402	Harmful to aquatic life

16.2 HMIS RATING

Health Hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0
PPE: Determined by User; Dependent on local conditions

16.3 NFPA RATING

Health Hazard: 2
Fire Hazard: 0
Instability or Reactivity Hazard: 0
Special Notes: None

16.4 NOTICE

The above information is believed to be correct but is not intended to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Ciner and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.