## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier
- **Product form:** Substance
- **Substance name:** Sodium Carbonate Monohydrate
- **Chemical name:** Sodium Carbonate Monohydrate
- **CAS No:** 5968-11-6
- **Product code:** 2753, 2757 & 2758
- **Formula:** Na2CO3.H2O
- **Synonyms:** carbonic acid disodium salt, monohydrate / crystol carbonate, monohydrate / soda, monohydrate / thermanitrite / thermonatrite
- **BIG no:** 10318

### 1.2. Relevant identified uses of the substance or mixture and uses advised against
- **Use of the substance/mixture:** No data available

### 1.3. Details of the supplier of the safety data sheet
- **Jost Chemical Co.**
  - 8150 Lackland Rd.
  - Saint Louis, Missouri 63114
  - T 314-428-4300 - F 314-428-4366
  - [www.jostchemical.com](http://www.jostchemical.com)

### 1.4. Emergency telephone number
- **Emergency number:** CHEMTREC 800-424-9300

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture
- **Classification (GHS-US)**: Eye Irrit. 2A
  - **Full text of H-phrases:** see section 16
  - **Classification:** H319

### 2.2. Label elements
- **GHS-US labeling**
- **Hazard pictograms (GHS-US):**
  ![GHS07](image)

- **Signal word (GHS-US):** Warning
- **Hazard statements (GHS-US):** H319 - Causes serious eye irritation
- **Precautionary statements (GHS-US):**
  - P264 - Wash hands, forearms and face thoroughly after handling
  - P280 - Wear protective gloves, 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 advice/attention

### 2.3. Other hazards
- No additional information available

### 2.4. Unknown acute toxicity (GHS US)
- Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance
- **Substance type:** Mono-constituent
Full text of H-phrases: see section 16

Not applicable

**SECTION 4: First aid measures**

4.1. Description of first aid measures


First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact: Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists. Wash skin with plenty of water.

First-aid measures after eye contact: Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.


4.2. Most important symptoms and effects, both acute and delayed


Symptoms/injuries after skin contact: Red skin. Slight irritation.

Symptoms/injuries after eye contact: Irritation of the eye tissue. Irritation to eyes.


Symptoms/injuries upon intravenous administration: No effects known.


4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

**SECTION 5: Firefighting measures**

5.1. Extinguishing media


Unsuitable extinguishing media: No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard: DIRECT FIRE HAZARD. Non combustible.

Explosion hazard: DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.

Reactivity: Reacts on exposure to water (moisture) with (some) metals. Upon combustion: CO and CO2 are formed. With pressure build-up may cause closed container to burst. Violent exothermic reaction with (some) metals. Violent exothermic reaction with (some) acids: release of harmful gases/vapours (carbon dioxide).

5.3. Advice for firefighters

Precautionary measures fire: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions: No specific fire-fighting instructions required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Protective equipment:

Emergency procedures:
- Ventilate spillage area. Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation. Avoid contact with skin and eyes.

Measures in case of dust release:
- In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

6.1.2. For emergency responders
Protective equipment:
- Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection**.

6.2. Environmental precautions
Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up
For containment:
- Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.

Methods for cleaning up:
- Recover mechanically the product. Prevent dust cloud formation. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information:
- Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 8: Exposure controls/personal protection**.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling:
- Ensure good ventilation of the work station. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures:
- Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures:
- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage conditions:

Incompatible materials:

Heat-ignition:
- KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage:
- KEEP SUBSTANCE AWAY FROM: (strong) acids. metals. water/moisture.

Storage area:
- Store in a dry area. Keep container in a well-ventilated place. Meet the legal requirements.

Special rules on packaging:
- SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials:
- MATERIAL TO AVOID: aluminium. zinc.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Sodium Carbonate Monohydrate (5968-11-6)

<table>
<thead>
<tr>
<th>DNEL</th>
<th>DNEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mg/m³ (Acute - local effects, inhalation, general population)</td>
<td></td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Appropriate engineering controls: Extraction to remove dust at its source. Eye fountain. Ensure good ventilation of the work station.

Personal protective equipment: Dust/aerosol mask with filter type P2. Gloves. Safety glasses.

Materials for protective clothing: GIVE GOOD RESISTANCE: butyl rubber. PVC.

Hand protection: Gloves.


Skin and body protection: Protective clothing.

Respiratory protection: Dust production: dust mask with filter type P1.

Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid

Appearance: Crystalline solid. Crystalline powder.

Color: Colourless

Odor: Odourless

Odor threshold: No data available

pH: 11.6 (5 %)

pH solution: 5 %

Melting point: 100 °C

Freezing point: Not applicable

Boiling point: Not applicable

Flash point: Not applicable

Relative evaporation rate (butyl acetate=1): No data available

Flammability (solid, gas): No data available

Explosion limits: Not applicable

Explosive properties: No data available

Oxidizing properties: No data available

Vapor pressure: < 0.10 hPa

Relative density: Not applicable

Relative vapor density at 20 °C: No data available

Specific gravity / density: 2250 kg/m³

Molecular mass: 124.01 g/mol

Solubility: Exothermically soluble in water. Soluble in glycerol. Water: 33 g/100ml

Log Pow: -6.19 (Estimated value)

Log Kow: No data available

Auto-ignition temperature: Not applicable

Decomposition temperature: No data available

Viscosity: No data available

Viscosity, kinematic: Not applicable

Viscosity, dynamic: No data available

9.2. Other information

VOC content: Not applicable

Other properties: Hygroscopic. Substance has basic reaction.
SECTION 10: Stability and reactivity

10.1. Reactivity
Reacts on exposure to water (moisture) with (some) metals. Upon combustion: CO and CO2 are formed. With pressure build-up may cause closed container to burst. Violent exothermic reaction with (some) metals. Violent exothermic reaction with (some) acids: release of harmful gases/vapours (carbon dioxide).

10.2. Chemical stability
Hygroscopic. Absorbs the atmospheric CO2.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

10.6. Hazardous decomposition products
No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
Skin corrosion/irritation : Not classified
(Based on available data, the classification criteria are not met)
Serious eye damage/irritation : Causes serious eye irritation.
pH: 11.6 (5 %)
Respiratory or skin sensitization : Not classified
(Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified
(Lack of data)
Reproductive toxicity : Not classified
(Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
(Lack of data)
Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met)
Symptoms/injuries after skin contact : Red skin. Slight irritation.
Symptoms/injuries after eye contact : Irritation of the eye tissue. Irritation to eyes.
Symptoms/injuries upon intravenous administration : No effects known.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : Classification concerning the environment: not applicable.
### Sodium Carbonate Monohydrate

#### Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - air</td>
<td>Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).</td>
</tr>
<tr>
<td>Ecology - water</td>
<td>Mild water pollutant (surface water). Maximum concentration in drinking water: 200 mg/l (sodium) (Directive 98/83/EC). Slightly harmful to fishes (LC50(96h) 100-1000 mg/l). Slightly harmful to invertebrates (Daphnia) (EC50 (48h): 100 - 1000 mg/l). pH shift.</td>
</tr>
</tbody>
</table>

#### Persistence and degradability

No additional information available

#### Bioaccumulative potential

No additional information available

#### Mobility in soil

No additional information available

#### Other adverse effects

Effect on the global warming | No known ecological damage caused by this product.

### SECTION 13: Disposal considerations

#### Waste treatment methods

Waste treatment methods | Dispose in a safe manner in accordance with local/national regulations.
Waste disposal recommendations | Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Precipitate/make insoluble. Remove to an authorized dump (Class I). Treat using the best available techniques before discharge into drains or the aquatic environment.

Additional information | LWCA (the Netherlands): KGA category 05. Hazardous waste according to Directive 2008/98/EC.

### SECTION 14: Transport information

**Department of Transportation (DOT)**
In accordance with DOT
Not regulated for transport

**Additional information**
Other information | No supplementary information available.

**Transport by sea**
No additional information available

**Air transport**
No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Sodium Carbonate Monohydrate (5968-11-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

**CANADA**
No additional information available

**EU-Regulations**
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Eye Irrit. 2
Full text of H-phrases: see section 16

05/23/2015  EN (English US)  6/7
**Sodium Carbonate Monohydrate**

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Xi; R36

Full text of R-phrases: see section 16

**National regulations**

No additional information available

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**15.3. US State regulations**

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**SECTION 16: Other information**

<table>
<thead>
<tr>
<th>Indication of changes</th>
<th>:</th>
<th>Initial SDS.</th>
</tr>
</thead>
</table>

Full text of H-phrases:

| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| H319         | Causes serious eye irritation |

**NFPA health hazard**

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

**NFPA fire hazard**

: 0 - Materials that will not burn.

**NFPA reactivity**

: 2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.

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**HMIS III Rating**

**Health**

: 2 Moderate Hazard - Temporary or minor injury may occur

**Flammability**

: 0 Minimal Hazard - Materials that will not burn

**Physical**

: 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.

**Personal Protection**

: E

: E - Safety glasses, Gloves, Dust respirator

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**SDS US Custom (-ADR)**

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*