

Safety Data Sheet According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

How the best perform

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Name	Product identifier	%
Disodium carbonate	(CAS No) 497-19-8	44.44

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	<ul> <li>If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.</li> </ul>
First-aid measures after eye contact	: If in eyes: 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.
First-aid measures after ingestion	: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	<ul> <li>May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.</li> </ul>
Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the sul	ostance or mixture
Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon.
Reactivity	: No dangerous reactions known under normal conditions of use.
5.3. Advice for firefighters	
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION	ON 6: Accidental release measu	ires
6.1.	Personal precautions, protective equip	oment and emergency procedures
General		Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
6.1.1. No additi	For non-emergency personnel onal information available	
6.1.2. No additi	For emergency responders onal information available	
6.2.	Environmental precautions	
Prevent e	entry to sewers and public waters.	
6.3.	Methods and material for containment	and cleaning up
For conta		Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods	for cleaning up :	Sweep or shovel spills into appropriate container for disposal.
6.4.	Reference to other sections	
For furthe	er information refer to section 8: "Exposure	e controls/personal protection"
SECTIO	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precautio	ons for safe handling :	Avoid contact with skin and eyes. Avoid breathing dust, fume, gas, mist, spray, vapors. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.
Hygiene	measures :	Wash contaminated clothing before reuse. Always wash hands after handling the product.
7.2.	Conditions for safe storage, including	any incompatibilities
Storage of	conditions :	Keep out of the reach of children. Keep container tightly closed.

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## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Disodium carbonate (497-19-8) Not applicable	
Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear suitable gloves.
Eye protection	: Wear eye/face protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	Avoid release to the environment.
Other information	<ul> <li>Handle in accordance with good industrial hygiene and safety procedures. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.</li> </ul>

<b>SECTION 9: Physical and chemica</b>	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Appearance	: Granular powder.
Color	: white
Odor	: odorless
Odor threshold	: No data available
рН	: 10 - 11
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

## **9.2.** Other information No additional information available

## SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions.

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#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

#### Heat. Incompatible materials.

#### 10.5. Incompatible materials

Avoid oxidizing agents and acids. Avoid contact with bare aluminum. Flammable hydrogen gas may be produced in contact with bare aluminum. Sodium Carbonate reacts with Fluorine, aluminum, phosphorous pentoxide, sulfuric acid, zinc, lithium, moisture, calcium hydroxide and 2,4,6-trinitrotoluene, and reacts violently with acids to form carbon dioxide. Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride. It is incompatible with sodium nitrite, gallium perchlorate, strong oxidizing agents (permanganate, dichromate, nitrate, chlorine), phosphorus pentachloride, nitrosyl perchlorate, titanium tetrachloride, and chromyl chloride.

#### 10.6. Hazardous decomposition products

Carbon dioxide and carbon monoxide may form when heated to decomposition. Urea decomposes upon heating and can form products including ammonia, oxides of nitrogen, cyanuric acid, cyanic acid, biuret, carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (inhalation)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (oral)	: Not classified

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LD50 oral rat	> 2000 mg/kg (Calculated acute toxicity estimate)
LD50 dermal rabbit	> 2000 mg/kg (Calculated acute toxicity estimate)
LC50 inhalation rat	> 20 mg/l/4h (Calculated acute toxicity estimate)

Disodium carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg
LD50 dermal rabbit	> 2000 ml/kg
LC50 inhalation rat	2300 mg/m <sup>3</sup> (Exposure time: 2 h)
Skin corrosion/irritation	: Not classified
	pH: 10 - 11
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 10 - 11
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.
SECTION 12: Ecological information	

12.1. Toxicity	
Ecology - general	May cause long-term adverse effects in the aquatic environment.
Disodium carbonate (497-19-8)	
LC50 fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

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Disodium carbonate (497-19-8)	
EC50 Daphnia 1	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
2.2. Persistence and degradability	
IMS Daily Clean	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
2.3. Bioaccumulative potential IMS Daily Clean	
Bioaccumulative potential	Not established.
Disodium carbonate (497-19-8)	
BCF fish 1	(no bioaccumulation)
2.4. Mobility in soil	
lo additional information available	
2.5. Other adverse effects	
ffect on the global warming	: No known effects from this product.
Other information	: No other effects known.
ECTION 13: Disposal consideration	IS
3.1. Waste treatment methods	
roduct/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible.

#### SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG) In accordance with DOT/TDG

Not applicable

### **SECTION 15: Regulatory information**

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

#### **SECTION 16: Other information**

Date of issue Revision date Other information Prepared by : 12/30/2016 : 12/30/2016 : None. : Nexreg Compliance Inc. www.Nexreg.com



#### SDS HazCom 2012 - WHMIS 2015 (NexReg)

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