

Safety Data Sheet



Section 1: Identification

Product Name	Oxid Out®
Product Identification:	Sodium Carbonate, Anhydrous
Chemical Name:	Sodium carbonate
Molecular formula:	Na ₂ CO ₃
Molecular weight:	106G/MOL
Use of the Substance/Mixture:	Pharmaceuticals. Food additive. Cosmetic additive. Photochemicals.
Details of the supplier of the safety data sheet	
Manufacturer	CIVCO Medical Solutions 102 First Street South Kalona, IA 52247-9589 United States www.civco.com info@civco.com 319-248-6757
Telephone (General)	
Emergency telephone number	
1-800-424-9300	- CHEMTRAC® (USA & Canada)
1-703-527-3887	- International CHEMTRAC

Section 2: Hazard

2.1. Emergency Overview: Sodium carbonate

NFPA: H=2 F=0 I=0 S=None

HMIS: H=2 F=0 R=0 PPE = Supplied by User; dependent on local conditions

General Information

Appearance: Powder Color: White Odor: Odorless

Main effects - Irritating to eyes. - None known.

2.3. Potential Health Effects

Inhalation

- May cause nose, throat, and lung irritation.
- Repeated or prolonged exposure: Risk of sore throat, nose bleeds.
- (in case of higher concentration): Cough.

Eye contact

- Severe eye irritation
- Symptoms: Redness, Lachrymation, Swelling of tissue.

Skin contact

- Prolonged skin contact may cause skin irritation.

Ingestion

- Severe irritation
- Symptoms: Nausea, Abdominal pain, Vomiting, Diarrhea.

Other toxicity effects

- See section 11: Toxicological Information

2.4. Environmental Effects:

- See section 12: Ecological Information

Section 3 - Composition/Information on Ingredients

Chemical Name	Weight - %	CAS Number
Sodium carbonate	> 99.5 %	497-19-8

Section 4: First-Aid Measures

4.1. Inhalation

- Move to fresh air.
- If symptoms persist, call a physician.

4.2. Eye contact

- In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a specialist.

4.3. Skin contact

- Immediately flush skin with plenty of water of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If symptoms persist, call a physician.

4.4. Ingestion

- Rinse mouth with water.
- If not breathing give artificial respiration. If breathing is difficult, give oxygen.
- Do NOT induce vomiting.
- If symptoms persist, call a physician or Poison Control Centre immediately.

4.5. Notes to physician

- Exposure to decomposition products:
 - If accidentally swallowed obtain immediate medical attention.
- Treat symptomatically

Section 5 - Firefighting Measures

5.1. Suitable extinguishing media

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Extinguishing media which shall not be used for safety reasons

- None.

5.3. Special exposure hazards in a fire

- Not combustible.

5.4. Hazardous combustion products

- Fumes of sodium oxide. Carbon oxides (CO_x)

5.5. Special protective equipment for firefighters

- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.

Section 6 - Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. Advice for non-emergency personnel

- Evacuate personnel to safe areas.
- Avoid dust formation.

6.1.2. Advice for emergency responders

- Use personal protective equipment.
- Sweep up to prevent slipping hazard.
- Prevent further leakage or spillage.

6.2. Environmental precautions

- Should not be released into the environment.
- Do not flush into surface water or sanitary sewer system.
- Prevent any mixture with an acid into the sewer/drain (gas formations).
- Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

- Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

- Refer to protective measures listed in sections 7 and 8.

Section 7- Handling & Storage

7.1. Handling

- Ensure adequate ventilation.
- Minimize dust generation and accumulation.
- Avoid contact with skin and eyes.
- Keep away from Incompatible products.
- Personal Protective Equipment comprising: suitable protective gloves, safety goggles and protective clothing.
- Wash thoroughly after handling

FOR INDUSTRIAL USE ONLY.

7.2. Storage

- Store in original container.
- Keep in a dry place.
- Keep in properly labelled containers.
- Keep container tightly closed.
- Keep away from Incompatible products: Aluminum, Powdered Aluminum, Acids.

7.3. Packaging material

- HDPE: High Density Polyethylene

Section 8 - Exposure Controls/Personal Protection

8.1. Personal protective equipment

8.1.1. Respiratory protection

- In case of insufficient ventilation, wear suitable respiratory equipment.
- Use only respiratory protection that conforms to international/ national standards.
- Use NIOSH approved respiratory protection.
- Effective dust mask.

8.1.2. Hand protection

- Wear suitable gloves.
- Suitable material: Neoprene, Nitrile Rubber

8.1.3. Eye protection

- Safety goggles

8.1.4. Skin and body protection

- Dust impervious protective suit
- Protective shoes or boots
- Rubber or plastic apron

8.2.5. Hygiene measures

- Eye wash bottles or eye wash stations in compliance with applicable standards.
- When using, do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

9.1. General Information

Appearance: powder

Color: white

Odor: odorless

9.2. Important health safety and environmental information

pH:	11.4
Concentration:	4 g/l
Temperature:	25 °C (77 °F)
Concentration:	10 g/l
Temperature:	25 °C (77 °F)
pKa:	pKa1= 6.35; pKa2 = 10.33
Boiling point/boiling range:	No information available
Flash point:	Not applicable
Flammability:	Not applicable
Explosive properties:	Not explosive

Oxidizing properties:	Non-oxidizing
Vapor pressure:	No information available
Specific gravity:	2.52
Temperature:	20 °C (68 °F)
Bulk density:	0.70 – 0.90 g/cm ³
Method:	Free flow
Solubility (ies):	= 71 g/L
	Remarks: Water Temperature: 0 °C (32 °F)
	= 212.5 g/L
	Remarks: Water Temperature: 20 °C (68 °F)
Partition coefficient:	No information available
N-octanol/water	
Viscosity:	No information available
Vapor density:	Remarks: not applicable
Evaporation rate:	No information available

9.3. Other Data

Melting point/range:	851 °C (1,564 °F)
Auto-flammability:	No information available
Granulometry:	80 - 100 % < 160 µm
Decomposition Temperature:	> 400 °C (752 °F)

Section 10 – Stability and Reactivity

10.1. Stability

- Stable under recommended storage conditions.

10.2. Conditions to avoid

- Exposure to air or moisture over prolonged periods.

10.3. Materials to avoid

- Finely divided aluminum. Acids.

Hazardous decomposition products

- Sodium oxides. Carbon oxides (CO_x)

Section 11 – Toxicological Information

Toxicological data

Acute oral toxicity	LD50, rat, > 2,800 mg/kg
Acute inhalation toxicity	LC50, 2 h, guinea pig, 0.8 mg/l
	LC50, 2 h, mouse, 1.2 mg/l
	LC50, 2 h, rat, 2.3 mg/l
Acute dermal irritation/corrosion	LD50, rabbit, > 2,000 mg/kg
Skin irritation	Rabbit, No skin irritation
	Human experience, No skin irritation
Eye irritation	Rabbit, irritant effects
Chronic toxicity	No data available
Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
Genetic toxicity in vitro	In vitro tests did not show mutagenic effects
Repeated dose toxicity	No adverse effects observed
Reproductive toxicity	No data available
Remarks	No data available

Section 12 - Ecological Information

Ecotoxicity:

Sodium carbonate (497-19-8)				
Active Ingredient(s)	Duration	Species	Value	Units
Sodium Carbonate	96 h LC50	Bluegill sunfish	300	Mg/L
Sodium Carbonate	48 h EC50	Ceriodaphnia	200-227	Mg/L

Persistence and degradability	Biodegradability does not pertain to inorganic substances
Bioaccumulation:	Does not bioaccumulate
Mobility:	Dissociates into ions
Other Adverse Effects:	None known.

Section 13 - Disposal Considerations

13.1. Waste from residues / unused products

- Contact waste disposal services.
- If recycling is not practicable, dispose of in compliance with local regulations.
- Dilute with plenty of water.
- Neutralize with acid.
- In accordance with local and national regulations.

13.2. Packaging treatment

Where possible recycling is preferred to disposal or incineration.

- Clean container with water.
- Dispose of rinse water in accordance with local and national regulations.
- Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

13.3. RCRA Hazardous Waste

- Listed RCRA Hazardous Waste (40 CFR 302) - No

Section 14 – Transport Information

- Sea (IMO/IMDG) - not regulated
- Air (ICAO/IATA) - not regulated
- U.S. Dept. of Transportation - not regulated
- It is recommended that ERG Guide number 111 be used for all non-regulated material.
- Canadian Transportation of Dangerous Goods - not regulated

Section 15 – Regulatory Information

15.1. Inventory Information

Australia. Inventory of Chemical Substances (AICS) -	In compliance with inventory.
Canada. Domestic Substances List (DSL): -	In compliance with inventory.
Korea. Existing Chemicals Inventory (KECI (KR)): -	In compliance with inventory.
EU. List of existing chemical substances (EINECS): -	In compliance with inventory.
Japan. Inventory of Existing & New Chemical Substances (ENCS): -	In compliance with inventory.
China. Inventory of Existing Chemical Substances (IECS): -	In compliance with inventory.
Philippines. Inventory of Chemicals and Chemical Substances (PICCS): -	In compliance with inventory.
USA. Toxic Substances Control Act (TSCA): -	In compliance with inventory.
New Zealand. Inventory of Chemicals (NZIOC): -	In compliance with inventory.
Mexico INSQ (INSQ): -	In compliance with inventory.
Mexico – Grade:	Moderate risk, Grade 2.

15.2. Other regulations

- US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) - Not regulated.
- US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required- Not regulated.
- US. EPA CERCLA Hazardous Substances (40 CFR 302) - Not regulated.
- US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5) - Not regulated.
- US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) - Not regulated.
- US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) - Not regulated. This product does not contain any Proposition 65 chemicals.

15.3. Classification and labelling

Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2) - D2B - Toxic Materials, Eye irritation.
Class E: Corrosive to aluminum. Not corrosive to animal skin or carbon steel.

Remarks: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Section 16 - Other Information

NFPA Overall Rating

Health: 2 Flammability: 1 Reactivity: 0
Special = Supplied by User; dependent on local conditions.



HMIS Overall Rating:

Health: 2 Flammability: 1 Reactivity: 0
Special = Supplied by User; dependent on local conditions.



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Disclaimer/Statement of Liability

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.