

# SODA ASH DENSE

## 1. Chemical Product and Company Identification

- **Product Name:** Soda Ash Dense
  - **Chemical Name:** Sodium Carbonate
  - **Synonyms:** Disodium Carbonate, Carbonic acid disodium salt
  - **CAS No.:** 497-19-
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## 2. Hazards Identification

- **Classification:**
    - Eye Irritation – Category 2A
    - Skin Irritation – Category 3 (mild)
  - **Hazards:**
    - Causes serious eye irritation
    - May cause mild skin irritation
    - Inhalation of dust may cause respiratory irritation
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## 3. Composition / Information on Ingredients

- **Chemical Name:** Sodium Carbonate
  - **CAS No.:** 497-19-8
  - **Concentration:** >99%
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## 4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
  - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
  - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention.
  - **Ingestion:** Rinse mouth, do not induce vomiting. Seek medical advice.
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## 5. Fire-Fighting Measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Use media appropriate for surrounding fire (e.g., water spray, foam)

- **Hazardous Decomposition:** None under normal conditions
  - **Protective Equipment:** Use self-contained breathing apparatus in fire conditions
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## 6. Accidental Release Measures

- **Personal Protection:** Use appropriate PPE (gloves, goggles, dust mask)
  - **Spill Clean-up:** Avoid creating dust. Sweep up and collect in suitable containers.
  - **Environmental Precautions:** Prevent entry into drains and waterways
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## 7. Handling and Storage

- **Handling:** Avoid dust generation. Use adequate ventilation. Wear protective equipment.
  - **Storage:** Store in a cool, dry, well-ventilated area. Keep containers tightly closed. Avoid moisture.
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## 8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation
  - **Personal Protective Equipment (PPE):**
    - **Eyes:** Safety goggles
    - **Skin:** Protective gloves
    - **Respiratory:** Dust mask if exposure limits are exceeded
  - **Exposure Limits:** No occupational exposure limits established for sodium carbonate
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## 9. Physical and Chemical Properties

- **Appearance:** White, odorless granular solid
  - **Molecular Formula:**  $\text{Na}_2\text{CO}_3$
  - **Molecular Weight:** 105.99 g/mol
  - **Melting Point:**  $\sim 851^\circ\text{C}$
  - **Solubility:** Soluble in water
  - **pH (1% solution):**  $\sim 11.5$
  - **Boiling Point:** Not applicable (decomposes)
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## 10. Stability and Reactivity

- **Stability:** Stable under normal conditions
  - **Incompatible Materials:** Acids (releases CO<sub>2</sub>), aluminum, fluorine
  - **Hazardous Decomposition:** Carbon dioxide when reacting with acids
  - **Conditions to Avoid:** Moisture, strong acids
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## 11. Toxicological Information

- **Routes of Exposure:** Inhalation, skin contact, eye contact, ingestion
  - **Acute Toxicity:**
    - **Oral (LD50, rat):** ~2800 mg/kg
  - **Effects:** Eye irritation, mild skin irritation, coughing/sneezing if inhaled
  - **Chronic Effects:** No known significant long-term hazards
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## 12. Ecological Information

- **Ecotoxicity:** Low toxicity to aquatic life
  - **Persistence & Degradability:** Inorganic substance; does not biodegrade
  - **Bioaccumulation:** Not expected
  - **Mobility in Soil:** High water solubility; likely to leach to groundwater
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## 13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, regional, and national regulations.
  - **Packaging:** Rinse empty containers before disposal or recycling.
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