

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Soda ash dense
HCI PRODUCT ID NUMBER: 02595
SYNONYMS: Sodium carbonate, anhydrous
CHEMICAL FAMILY NAME: Inorganic, salt
NFPA HAZARD RATINGS (H-F-R): 2-0-0
HMIS HAZARD RATINGS (H-F-R): 3-0-0
DISTRIBUTOR: HCI U.S.A. DISTRIBUTION COMPANIES, INC.
TECHNICAL RESOURCE CENTER
6529 S. BROADWAY
ST. LOUIS, MO 63111
(314) 353-6500
IN CASE OF EMERGENCY CALL: CHEMTREC 1-800-424-9300

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	PERCENT
Sodium carbonate	000497-19-8	99.8

Trace impurities and additional material names not listed above may also appear in the Regulatory Information Section (Section 15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

Caution! Airborne dust is irritating to nose and throat.
Contact with the eyes and skin can cause irritation.

Continued

POTENTIAL HEALTH EFFECTS

SKIN: Contact with the skin may cause irritation.

EYES: Contact with the eyes may cause irritation.

INGESTION: No data available

INHALATION: Inhalation may be irritating to respiratory tract.

Components found on one of the OSHA designated carcinogen lists are listed below.

INGREDIENT	NTP	IARC	OSHA
Sodium carbonate	N	N	N

This **product does** not contain any chemicals reportable under California Proposition 65.

FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing and shoes. Wash exposed areas with soap and water. Call a physician if irritation persists.

EYE CONTACT: Flush eyes with water for at least 15 minutes. Call a physician if irritation persists.

INGESTION: Give 1-2 glasses of water to dilute.

Do not induce vomiting!

Do not give anything by mouth to an unconscious person.

Get medical attention.

INHALATION: Remove to fresh air.

Call a physician if irritation persists.

NOTES TO PHYSICIAN: While internal toxicity is low, irritant effects of high concentrations may produce corneal opacities and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.

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5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES

FLASHPOINT: , N/AP
FLASH POINT METHOD: N/AP
LOWER FLAMMABILITY LIMIT (% IN AIR): N/AP
UPPER FLAMMABILITY LIMIT (% IN AIR): N/AP
AUTOIGNITION TEMPERATURE: N/AP
FLAMMABILITY CLASSIFICATION: N/AP
EXTING. MEDIA: This product is not flammable. Use extinguishing media for surrounding fire.
FIRE FIGHTING: Use NIOSH-approved self-contained breathing apparatus and complete protective clothing when fighting chemical fires.
FIRE HAZARDS: None known

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Contain spill and ventilate area. Sweep up and containerize for disposal.
LARGE SPILLS: Contain spill and ventilate area. Permit only trained personnel wearing full protective equipment to enter the spill area. Collect the spill in a waste container or remove with a vacuum truck. Prevent spill from entering natural watercourses.
Wear complete protective clothing when cleaning up chemical spills.
Spills and releases may have to be reported to federal and/or local authorities. See the Regulatory Information section (section 15) regarding reporting requirements.

7. HANDLING AND STORAGE INFORMATION

HANDLING: Avoid contact with skin, eyes, and clothing.
Avoid breathing product dust.
Do not take internally.
Wash thoroughly after handling this material.
STORAGE: Keep container -closed when not in use.
This material should be stored in a dry area.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Good general ventilation (typically 10 air changes/hour) should be used. Ventilation rates should be matched to conditions.

PERSONAL PROTECTIVE EQUIPMENT

SKIN: Wear impervious gloves.
EYES: Wear chemical safety goggles.
RESPIRATORY: Use a NIOSH-approved respirator for dusts/mists when necessary.
OTHER: Emergency showers, eye-wash stations, and fire blankets should be accessible. Wear protective clothing.

EXPOSURE GUIDELINES

INGREDIENT	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Sodium carbonate	N/EST	N/EST	N/EST	N/EST

See 29 CFR 1910.1000 (D) (2) and ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" booklet (Appendix C) for the determination of exposure limits for mixtures. Consult an industrial hygienist or similar professional to confirm that the calculated exposure limits are appropriate.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid
APPEARANCE: White, granular
ODOR: Odorless
MOLECULAR WEIGHT: 105.99
SPECIFIC GRAVITY: 2.509
SOLUBILITY (IN WATER): 33.2 Max.
BOILING POINT: N/AV
FREEZING POINT: 1564 F 851.03 C
MELTING POINT: 1564 F 851.03 C
PRODUCT pH (@ 23 C): 11.4 (1% soln)
VAPOR PRESSURE: N/AP
VAPOR DENSITY: N/AP

Continued

EVAPORATION RATE (BUTYL ACETATE=1): N/AP
-- %
VOLATILES: N/AP

10. STABILITY AND REACTIVITY INFORMATION

STABILITY: Stable
COND. TO AVOID: Exposure to high temperatures should be minimized.
INCOMPATIBILITY: Acids
Aluminum
Halogens
DECOMPOSITION: Toxic oxides of carbon
POLYMERIZATION: Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE EFFECTS
Irritant: inhalation, skin, eye
LC50: 2.3 mg/L (rat) 2 hour LD50:
4090 mg/kg (rat) Irritation data:
R
Eye: Severe irritant (rabbit)
DELAYED EFFECTS (CHRONIC AND SUBCHRONIC)
CARCINOGENICITY: No data available
MUTAGENICITY: No data available
EPIDEMIOLOGY: No data available
TERATOGENICITY: No data available
REPRODUCTIVITY: No data available
NEUROTOXICITY: No data available

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12. ECOLOGICAL INFORMATION

LC50: 96hr (Daphnia magna = 265-565 mg/L
LC50: 96hr (Bluegill sunfish) = 300-320 mg/L

13. DISPOSAL CONSIDERATIONS

RCRA WASTE: No
RCRA ID NUMBER: N/AP
VOC CONTENT (lbs/gal): N/AP

Discharge, treatment, or disposal may be subject to Federal, State, or Local laws. State and Local regulations and restrictions are complex and may differ from Federal disposal regulation.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA Classification and the proper disposal ,.-- method.

14. TRANSPORTATION INFORMATION

DOT SHIPPING NAME: None

DOT HAZARD CLASS: None
DOT ID NUMBER: None
DOT PACKING GROUP: None

IMDG HAZARD CLASS: None

ICAO HAZARD CLASS: None

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15. REGULATORY INFORMATION

CERCLA "REPORTABLE QUANTITY" (RQ): No RQ

Spills/releases resulting in the loss of this product at or above its RQ requires immediate notification to the National Response Center (1-800-424-8802) and to your Local Emergency Planning Committee.

TSCA

TSCA INVENTORY STATUS: Yes

SARA TITLE III

INGREDIENT	SECTION 313	SECTION 302
Sodium carbonate	no	no

SECTION 311/312 HAZARD CLASS: Immediate (acute) health hazard

WHMIS CLASSIFICATION (CANADA)

Not restricted

FOREIGN INVENTORY STATUS

No data available

ADDITIONAL REGULATORY INFORMATION

This product does not contain any chemicals reportable under California Proposition 65.

MASSACHUSETTS SUBSTANCE LIST:

Not listed

NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST:

Not listed

PENNSYLVANIA HAZARDOUS SUBSTANCE LIST:

Not listed

Continued

16. OTHER INFORMATION

CREATION DATE: 06/25/1997

REVISION DATE: 06/25/1997

The information herein is presented in good faith and is believed to be correct as of the date hereof. However, HCI makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

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