

MATERIAL SAFETY DATA SHEET

Soda Ash

Date: December 01, 2008

I Company Identification

Company Name: BHS Marketing / Western Briquette
Mailing Address: P.O. Box 27955 SLC, UT 84127-0955
Physical Address: 2320 West Indiana Ave. SLC, UT 84104
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II Product Identification

Product Name: Soda Ash
Product Class: 55
Chemical Description: Sodium Carbonate, anhydrous, is a white odorless, granular material, free of contamination. Meets federal specification O-S-571 G, Type II. Meets AWWA Std.
Cas Number: 497-19-8

III Typical Physical Properties

Physical Appearance: White granules solid
Odor: Odorless
Molecular Weight: 105.99
pH: 11.3 at 1wt/wt%
Boiling Point: Decomposes at 1800 F
Melting Point: 851 Deg C (1564 F)
Specific Gravity: 2.53 at (68F)
Solubility in Water: Soluble 7wt/wt% at (77 F)

IV Reactivity Data

Chemical Stability:	This material is stable under normal handling and storage conditions
Conditions to Avoid:	Extreme Heat
Materials to Avoid:	Aluminum, Fluorine, Humid Air, Moisture, Sulfuric Acid, Acids, Magnesium, Phosphorus Pentoxide
Hazardous Decomposition Products:	Carbon Dioxide
Hazardous Polymerization:	Will not occur
Decomposition Temperature Range:	400 Deg. C (752 Deg F)

V Toxicological Information and Interpretation

Acute	
Eye irritation:	Eye-Eye irritation, 50 mg Rabbit. Severely irritating
Skin Irritation:	Skin-Skin irritation, Rabbit. Mildly irritating
Dermal Toxicity:	No test data found for Product
Respiratory Irritation:	No test data found for Product.
Acute Inhalation Toxicity:	LC50-Lethal concentration. 50% of Test Species, 2300 mg/cu m/2hrs, rat
Acute Oral Toxicity:	LD50-Lethal Dose. 50% of Test Species, 4090 mg/kg, rat
Chronic Toxicity:	This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens

VII Fire and Explosion Hazard Data

Effects of Overexposure:

Acute

Eye Contact:	Causes Irritation.
Skin Contact:	May cause redness, swelling
Ingestion:	Low acute oral toxicity. May cause nausea, vomiting, diarrhea, irritation, corrosion.
Inhalation:	May cause upper respiratory tract irritation, lung irritation
Chronic Effects:	This product does not contain any ingredient designated by IARC, NTP, ACGIH, OSHA as probable or suspected human carcinogens.

VIII Recommended First Aid Measures

Eye Exposure:	Hold eyelids open and flush with a steady, gentle stream of water for at least 15 mins. Seek immediate medical attention.
Skin Exposure:	In case of contact, immediately wash with plenty of soap and water for at least 5 mins. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.
Inhalation Exposure	Remove and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek immediate medical attention.
Ingestion Exposure:	If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.
Medical conditions possible aggravated by exposure:	Inhalation of product may aggravate existing chronic respiratory problems such as asthma emphysema or bronchitis. Skin contact may aggravate existing skin disease.
Notes to Physician:	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

IX Fire Fighting Measures

Extinguishing Media: Not combustible. Use extinguishing methods suitable for surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike area top prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazard: Not combustible

X Accidental Release Measures

Evacuation Procedure & Safety: Ventilate closed spaces before entering. Wear appropriate protective gear for situation. See personal information.

Containment of Spills: Follow Procedure described below under Cleanup and Disposal of spill

Environmental & Regulatory Reporting: Do not flush to drain. If spilled on the ground, the affected area should be scraped clean placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterway. Large spills should be handled according to a predetermined plan. For assistance in developing a plan contact with the Technical Service Department using the Product Information phone number.

XI Handling & Storage

Handling: Do not get in eyes. Do not breath dusts. Avoid direct or prolonged contact with skin.

Storage: Store in area that is cool, dry, well-ventilated.

XII Exposure Controls/ Personal Protection

Appropriate

Hygienic Practices:
procedure,
prompt

As part of good industrial, personal hygiene and safety avoid all unnecessary exposure to the product and ensure removal from eyes, skin and clothing. Maintain good housekeeping to control dust accumulations.

Personal Protection Equipment

Eye Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Skin Protection:

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e. shirts and pants.) Consideration must be give both to durability as well as permeation resistance.

XIII Ecological Information

Acute Ecotoxicity:

Crustaceans, Daphnia magna, EC₅₀, 48 hours, 265 mg/l
Fishes, Lepomis macrochirus, LC₅₀ 96 hours, 300 mg/l
Algae, Nitzscheria linearis, EC₅₀, 5 day(s), 242 mg/l

Chronic Ecotoxicity:

Phytoplankton, EC biomass, 7 day(s), 14 mg/l

Mobility:

Considerable solubility and mobility

Degradation

Abiotic:

Water, hydrolysis. Degradation products: carbonate (pH. 10/bicarbonate (pH 6-10)/carbonic acid/carbon dioxide (ph<6))

Soil-result: N/A

Biotic:

N/A

Potential for

Bioaccumulation:

Log Po/w: Result- N/A

Other Adverse

Effects/ Comments:

Observed effects are related to alkaline properties of product. Product is not significantly hazardous for the environment.

XIV Disposal Consideration

Waste Treatment: Sodium Carbonate is not a listed hazardous waste under 40 CFR 261. However, state and local regulations for waste disposal may be more restrictive. Spilled product should be disposed of in an EPA-approved disposal facility in accordance with applicable national, state and local environmental laws and regulations.

Packing Treatment: Use dedicated containers where possible
Rinse the empty containers and treat the effluent in the same way as waste
Consult current federal, state and local regulations regarding the proper disposal of emptied containers.

RCRA Hazardous Waste: Not listed

XV Transport Information

Mode	DOT	IMDG	IATA
UN Number	Not a regulated hazardous material	Not a regulated hazardous material	Not a regulated hazardous material
Other	It is not recommended that ERG guide #111 be used for all non-DOT-regulated material		
STCC#	28-123-22		

XVI Regulatory Information

National Regulations (US)
TSCA Inventory 8(b): Yes
SARA Title III
Sec. 302/303
Extremely Hazardous
Substances (40 CFR 355): No
SARA Title III Sec 311/312
(40 CFR 370): Hazard Category: Acute health hazard; Chronic health hazard. Threshold planning quantity: 10,000 lbs

SARA Title III Sec 313
Toxic Chemical
Emissions Reporting
(40 CFR 372): No
CERCLA Hazardous
Substance (40 CFR Part 302) Listed: No
Unlisted Substance: No
Characteristic: N/A

State Component Listing: None identified

National Regulations (Canada)

Canadian DSL Registration: DSL

WHMIS Classifications: D2B—Material causing other toxic effects

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.

EEC Labeling: Name of dangerous product- sodium carbonate

Symbols Xi Irritant

Phrases R 36 Irritating to eyes

Phrases S (2) Keep out of reach of children

22 Do not breath dust.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Labeling “Dangerous for the environment.” Not dangerous.

Provisions classification of WG from EU-DGXI-1/3-04-98

XVII Other Information

Ratings:

NFPA (National Fire Protection Association)

Health = 2 Flammability = 0 Instability = 0 Special = None

HMIS (Hazardous Material Information system)

Health = 2 Fire = 0 Reactivity = 0 PPE = Supplied by User; dependent on local conditions

XVIII Additional Information

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use or disposal of the product.

*n/a= Not Applicable