MATERIAL SAFETY DATA SHEET

CAS #: 000497198
PRODUCT CODE: 07990

FORMULA: Na₂CO₃
CHEM. FAMILY: inorganic salts
CHEMICAL NAME AND SYNONYMS:
Soda Ash Light; Sodium Carbonate;
Soda Ash; Disodium Carbonate; Soda Calcined;
Carbonic Acid Disodium Salt;

SUPPLIERS NAME: Harcros Chemicals Inc.
5200 Speaker Road
Kansas City KS 66106-1095

SUPPLIERS PHONE NUMBER: 913-321-3131
TRANSPORTATION EMERGENCY PHONE NUMBER: 1-800-424-9300

S.A.R.A. INFORMATION
HAZARDS: Acute
PHYSICAL DATA: Pure Solid

SECTION I HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>MAX % W/W</th>
<th>SARA APPLIES</th>
<th>AIR CONTAMINENT LEVELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Carbonate</td>
<td>100.0</td>
<td>Y</td>
<td>PARTICULATES NOT OTHERWISE REGULATED</td>
</tr>
<tr>
<td>Soda Ash</td>
<td>(CAS # 497-19-8)</td>
<td></td>
<td>Total TWA 15 mg/m³ OSHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total TLV 10 mg/m³ ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Respirable TWA 5 mg/m³ OSHA</td>
</tr>
</tbody>
</table>

SECTION II HEALTH HAZARDS

POTENTIAL EFFECTS OF EXPOSURE
EYES
Eye contact with product may cause irritation burns
SKIN
Skin contact may cause irritation burns
INHALATION
Inhalation may cause irritation
INGESTION
Ingestion may cause irritation
TARGET ORGANS

Continued On Page 2
OVEREXPOSURE MAY CAUSE DAMAGE TO, DISORDERS OF, OR ADVERSELY AFFECT THE FOLLOWING SYSTEMS, FUNCTIONS, ORGANS: none currently known

FIRST AID

FIRST AID EYES
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

FIRST AID SKIN
Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

FIRST AID INHALATION
Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

FIRST AID INGESTION
Do not induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call a physician immediately.

OTHER INFORMAION

SECTION III SPECIAL PROTECTION

PROTECTIVE EQUIPMENT

PROTECTIVE EQUIPMENT EYES
chemical goggles Always wear eye protection when working with chemicals. Do Not wear contact lenses when working with chemicals.

PROTECTIVE EQUIPMENT SKIN
complete body covering imperious gloves safety helmet

PROTECTIVE EQUIPMENT INHALATION
If exposure limits are exceeded, or if exposure may occur, use a NIOSH/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSH publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSH/MSHA approved positive pressure breathing apparatus should be readily available.

VENTILATION REQUIRED:
Adequate ventilation is required to minimize exposure or to maintain exposure levels below OSHA/ACGIH requirements. Local mechanical ventilation may be required.

ADDITIONAL PROTECTIVE MEASURES
Safety shower, eye wash fountain, and washing facilities should be readily available.

SECTION IV FIRE & EXPLOSION HAZARD DATA

continued On Page 3
MATERIAL SAFETY DATA SHEET

DUST NAME: SODA ASH NATURAL LIGHT
PKCDOCT CODE: 07990

SECTION III SPECIAL PROTECTION

Flash Point (METHOD): N/A
Flammable Limits (% Volume in Air) UPPER: N/D Lower: N/D

HMIS Info
Health : 1
Fire : 0
React : 0
Special : X

EXTINGUISHING MEDIA
media appropriate for surrounding fire

FIRE FIGHTING PROCEDURES
Prevent human exposure to fire, fumes, smoke, and products of combustion. Evacuate non
essential personnel. Firefighters should wear full face, self contained breathing apparatus and
impervious protective clothing. Not considered a fire hazard.

UNUSUAL FIRE & EXPLOSION HAZARDS
Dust can be an explosion hazard. Prevent buildup of dust on walls, floors, and equipment.

SECTION V PHYSICAL DATA

Boiling Point: > OR = 752 deg. F
Freezing Point: 1564 deg. F
Specific Gravity (H(2)O=1): > OR = 2.5000 @ 68 deg. F
Vapor Pressure (MM HG.): N/D
Vapor Density (AIR=1): N/D
Evaporation Rate ( NA =1): N/D
Solubility in Water: 23% Percent Volatile by Volume: N/D
pH: aqueous approx. > OR = 11.400
Appearance:
SOLID - POWDER, CRYSTAL, FLAKE, GRANULE
TABLET, PRILL, BRIQUETTE, ETC.
Odor:
NIL

SECTION VI REACTIVITY DATA

STABILITY
Stable
INCOMPATABILITY
inorganic acids
HAZARDOUS DECOMPOSITION PRODUCTS
carbon monoxide, carbon dioxide
HAZARDOUS POLYMERIZATION

Continued On Page 4
MATERIAL SAFETY DATA SHEET

SECTION VI REACTIVITY DATA

Will not occur

SECTION VII SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

In Case Of Spills: Contain and dispose of in accordance with Federal, State and local regulations. Sweep, shovel, or pick up and return to dry, clean container.

DISPOSAL METHOD
Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable regulations under the Resource Conservation and Recovery Act. Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State.

SECTION VIII

Proper Shipping Name: UNCLASSIFIED
Hazard Class: None
Label Requirements: None
Reportable Quantity: None

SECTION IX ADDITIONAL INFORMATION

PRECAUTIONS
Wear protective equipment when handling. Use only with adequate ventilation. Wash thoroughly after handling. Do Not breathe dust. Do Not get in eyes, on skin, or clothing. Do not swallow.

HANDLING
For industrial use only. ATTENTION: This container hazardous when emptied. Since emptied container contains product residues (vapor or liquid), all labeled hazard precautions must be observed.

STORAGE
Keep container closed when not in use. Store in a cool dry place. Keep out of reach of children.

NAME: GENE TURNER
DATE ISSUED: 931001
DATE REVISED: 931001
N/A = NOT APPLICABLE
N/D = NOT DETERMINED
N/E = NOT ESTABLISHED

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