Helena Chemical Company 16-AUG-2002 13:42:53 PH: 901-761-0050 Page 1 Of 4

CHEMTREC: 800-424-9300

### Material Safety Data Sheet

Effective Date: 04-JUN-2002 Product: ARMICARB 100

### I. IDENTIFICATION

Chemical Name: NOT APPLICABLE, FORMULATED MIXTURE.

Chemical Family: ALKALI METAL BICARBONATE.

Formula: NOT APPLICABLE, FORMULATED MIXTURE.

Synonyms: NONE

CAS Number: NOT APPLICABLE, FORMULATED MIXTURE.

EPA Number: 5905-541

#### II. PHYSICAL DATA

-----

Boiling Point: NOT APPLICABLE Freezing Point: NOT APPLICABLE Spec Gravity: .760/.860 G/CC Vapor Pressure: NOT APPLICABLE Vapor Density: NOT APPLICABLE Solubility: APPRECIABLE Volatiles: NOT APPLICABLE Evaporation: NOT APPLICABLE Melting Point: NOT DETERMINED

Appearance: GRAY-WHITE POWDER, CHARACTERISTIC ODOR.

# III. INGREDIENTS

\_\_\_\_\_\_

CAS Number Percent TLV Material Hazard

100.00 NOT MILD SKIN & EYE PROPRIETARY BLEND OF ALKALI

METAL BICARBONATE DETERMI IRRITANT

NED

# IV. FIRE AND EXPLOSION HAZARD

Flash Point: NON-COMBUSTIBLE Autoignition Temp: NOT APPLICABLE Flammable Limit: NOT APPLICABLE

Extinguishing Media: NON-COMBUSTIBLE SOLID - USE EXTINGUISHING MEDIA

FOR UNDERLYING CAUSE OF FIRE.

Special Fire Fight Proc: FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE

EQUIPMENT INCLUDING BUNKER GEAR AND A SELF-

CONTAINED BREATHING APPARATUS (SCBA).

Fire and Expl Hazard: NONE CURRENTLY KNOWN.

#### V. HEALTH HAZARD

Helena Chemical Company 16-AUG-2002 13:42:53 Page 2 Of 4

PH: 901-761-0050 CHEMTREC: 800-424-9300

## Material Safety Data Sheet

Effective Date: 04-JUN-2002 Product: ARMICARB 100

\_\_\_\_\_\_

Carcinogen Information: NOT LISTED BY NTP, IARC OR OSHA

#### ACUTE EFFECTS OF OVER EXPOSURE

\_\_\_\_\_\_

Swallowing: LOW TOXICITY. INGESTION OF LARGE AMOUNTS MAY CAUSE ABDOMINAL DISCOMFORT AND INJURY. THE

ACUTE ORAL LD50 (RAT) = 2,700 MG/KG.

Skin Absorption: NO TOXIC EFFECTS EXPECTED. THE ACUTE DERMAL

LD50 (RAT) > 5,000 MG/KG.

Inhalation: INHALATION OF PRODUCT DUST MAY IRRITATE THE

RESPIRATORY TRACT.

Skin contact: NOT A PRIMARY SKIN IRRITANT. IRRITATION IS

POSSIBLE WITH PROLONGED OR REPEATED EXPOSURE.

Eye Contact: MAY BE IRRITATING, BUT NOT EXPECTED TO RESULT

IN INJURY. EFFECTS WILL BE MINIMIZED WITH

WASHING.

Chronic Effects: NONE CURRENTLY KNOWN.

Other Hazard: PRE-EXISTING RESPIRATORY DISEASE, INCLUDING

ASTHMA AND EMPHYSEMA, MAY BE AGGRAVATED.

### EMERGENCY AND FIRST AID PROCEDURES

Swallowing: IF SWALLOWED, DO NOT INDUCE VOMITING. IF PERSON IS CONSCIOUS, GIVE WATER TO DRINK. NEVER GIVE

ANYTHING ORALLY TO AN UNCONSCIOUS PERSON. SEEK

MEDICAL ATTENTION.

Skin: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED

AREAS THOROUGHLY WITH WATER. SEEK MEDICAL

ATTENTION IF IRRITATION DEVELOPS.

Inhalation: REMOVE TO AREA FREE FROM RISK OF FURTHER

EXPOSURE. TREAT SYMPTOMATICALLY.

Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING

EYELIDS OPEN. IF IRRITATION PERSISTS, CONSULT

A PHYSICIAN.

Notes to Physician: INGESTION OF LARGE DOSES MAY PRODUCE SYSTEMIC

ALKALOSIS. TREATMENT BASED ON JUDGEMENT OF PHYSICIAN IN RESPONSE TO REACTIONS OF THE

PATIENT.

.\_\_\_\_\_

## VI. REACTIVITY

\_\_\_\_\_\_

Stability: Stable

Conditions to Avoid: EXPOSURE TO HIGH HUMIDITY OR OTHER DAMP/MOIST

CONDITIONS MAY CAKE PRODUCT.

Polymerization: Will Not Occur

Conditions to Avoid: NONE CURRENTLY KNOWN.

Incompatibility material: REACTS WITH ACIDS TO YIELD CARBON DIOXIDE.

Helena Chemical Company 16-AUG-2002 13:42:53 PH: 901-761-0050 Page 3 Of 4

CHEMTREC: 800-424-9300

#### Material Safety Data Sheet

Effective Date: 04-JUN-2002 Product: ARMICARB 100

\_\_\_\_\_\_

Hazardous Combustion: THERMAL DECOMPOSITION MAY EMIT CARBON DIOXIDE,

OXIDES OF SULFUR, AND POTASSIUM OXIDE.

\_\_\_\_\_\_

### VII. SPILL OR LEAK PROCEDURES

\_\_\_\_\_\_

Spill or Leak Proc: IF UNCONTAMINATED, SWEEP UP OR COLLECT AND

REUSE PRODUCT. IF CONTAMINATED WITH OTHER MATERIAL, PLACE IN A RECOVERY DRUM FOR PROPER

DISPOSAL.

Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO

FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE

RESOURCE CONSERVATION AND RECOVERY ACT.

#### VIII. SPECIAL PROTECTION INFORMATION

\_\_\_\_\_\_

Respiration: IF DUST CONCENTRATIONS EXCEED RECOMMENDED

PERMISSIBLE EXPOSURE LIMITS, USE NIOSH-APPROVED

DUST RESPIRATOR.

Ventilation: LOCAL EXHAUST NORMALLY SUFFICIENT.

Gloves: IMPERMEABLE

Eyes: CHEMICAL WORKERS GOGGLES. Other: NO SPECIAL REQUIREMENTS.

### IX. SPECIAL PRECAUTIONS

Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE

WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED

OR CONSUMED BY HUMANS OR ANIMALS. DO NOT CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR

PONDS. PROTECT AGAINST PHYSICAL DAMAGE. STORE IN COOL, DRY PLACE, SEPARATE FROM INCOMPATIBLE

MATERIALS (ACIDS).

Other precaution: NONE CURRENTLY KNOWN.

# X. SHIPPING INFORMATION

\_\_\_\_\_\_

Shipping name: NOT REGULATED BY DOT, IATA OR IMO.

Hazard Class: NONE Identification No: NONE Labels Required: NONE Helena Chemical Company 16-AUG-2002 13:42:53 PH: 901-761-0050

Page 4 Of 4

CHEMTREC: 800-424-9300

Material Safety Data Sheet

Effective Date: 04-JUN-2002 Product: ARMICARB 100

\_\_\_\_\_\_

Placarding: NONE

Freight Class: POTASSIUM BICARBONATE, N.O.I. (NMFC ITEM 45680,

SUB 2, CLASS 77.5)

Chemical Name Equivalent R.Q.

-----

NOT APPLICABLE NOT APPLICABLE

XI. GENERAL PRODUCT INFORMATION

\_\_\_\_\_\_

National Fire Protection Association Rating:

(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum

Health: 2 Fire: 0 Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y Delayed (Chronic) Health: N Fire: N Sudden Release of pressure: N

Reactive: N

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017 Helena Chemical Company believes that the data contained herein is factual. This data is not to be taken as a warranty or representation of legal responsibility. It is offered solely for your consideration, investigation and verification.