

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SODIUM BICARB IND GRADE 50# DATE: 09/15/93 PAGE 01
PRODUCT CODE: 16-00759-02

CAS # 000144-55-8

FORMULA: NaHCO(3)

CHEMICAL FAMILY: Carbonates

CHEMICAL NAME AND SYNONYMS: Sodium Bicarbonate; Carbonic Acid Mono-sodium Salt; Baking Soda; Better Blend Soda; Sodium Bicarbonate USP, Food Grade & Feed Grade; Freestyle Alkalinity Plus

SUPPLIERS NAME: Harcros Chemicals Inc
5200 Speaker Rd
Kansas City, Ks 66106

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

S.A.R.A. INFORMATION

HAZARDS: Fire:No Pressure:No Reactivity:No Acute:Yes Chronic:Yes
PHYSICAL DATA: Mixture:No Pure:Yes Solid:Yes Liquid:No Gas:No

SECTION I Hazardous Ingredients

Ingredient	Percent	TLV
SODIUM BICARBONATE	Approx 100	NUISANCE DUSTS PEL/TWA 8Hr 15 mg/m(3) Total Dust PEL/TWA 8Hr 5 mg/m(3) Respirable Dust - OSHA TLV/TWA 8Hr 10 mg/m(3) Total Dust ACGIH

SECTION II Health Hazards

Threshold Limit Value: See Section I

Potential Effects of Exposure (listed by primary routes of entry)

Eyes:
Mild irritant.

Skin:
May cause irritation from long contact, or if skin broken or abraded. Irritant - dermal (Rabbit): 30 mg/3 day (mild).

Inhalation:
Inhalation may irritate nose, throat and lungs.

Ingestion:
Although low in toxicity, ingestion can be harmful. May irritate mouth & gastrointestinal tract. Oral LD(Lo) (Infant): 1260 mg/kg. LD(50)(Rat): 4220 mg/kg Ref. (1) Sec. IX.

First aid:

Eyes:
Flush with water for 15 minutes while holding eyelids open. Get medical attention if irritation persists.

Skin:
Wash with plenty of water. Wash affected clothing before reuse.

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SECTION II Health Hazards

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Inhalation:

If dust inhalation excessive remove to fresh air. If discomfort from inhalation proves persistent, consult with a physician.

Ingestion:

Drink a large quantity of water to dilute the material.

Other Information:

Eye or skin diseases and breathing or respiratory disorders will be aggravated by exposure to this chemical.

NOTE TO PHYSICIAN:

Overdosing can lead to systemic alkalosis and/or expansion in the extracellular fluid volume with edema.

Not reported as a carcinogen.

SECTION III Special Protection Information

Respiratory Protection:

Where dust or liquid mist exceeds PEL/TLV limitations use a dust respirator approved by NIOSH.

Ventilation Required:

Local exhaust ventilation recommended where dusty conditions prevail.

Protective Clothing:

Eyes:

Wear head covering and chemical safety goggles. Do not wear contact lenses.

Skin:

Wear long-sleeves and trousers and gloves for routine product use. Cotton gloves are sufficient for dry product; wear impervious gloves when handling solutions. Use rubber, neoprene or similar materials that will not let alkaline solutions penetrate.

Additional Protective Measures:

Safety shower, eye bath and washing facilities should be available.

SECTION IV Fire & Explosion Hazard Data

Flash Point (Method): Not flammable

Flammable Limits (% Volume in Air):

Upper: N/A

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SECTION IV Fire & Explosion Hazard Data
Lower: N/A

CONTINUED

Extinguishing Media: N/A

Special Fire Fighting Procedures:
Firefighters should wear self-contained breathing apparatus and full bunker gear.

Unusual Fire and Explosion Hazards:
Carbon dioxide is released when product is heated.

SECTION V Physical Data

Boiling Point: None

Melting Point: Decomposes

Specific Gravity (H₂O=1): 2.16

Bulk Density: 60 lbs./cu. ft.

Vapor Pressure (MM HG.): N/A

Vapor Density (AIR=1): N/A

Evaporation Rate (_____ =1): N/A

Solubility in Water: Approx. 9% @ 68 deg. F.

Percent Volatile by Volume: N/A

pH: 1% solution - 8 to 8.6

Appearance and Odor: White crystals or powder, odorless.

SECTION VI Reactivity Data

Stability: Stable

Incompatibility:

Reacts with acids to form carbon dioxide gas, salt, and water. Avoid monoammonium phosphate, aluminum and phosphorus pentoxide and water. In moist air forms sodium carbonate, an irritant. High temperature exposure (About 228 deg. F) causes rapid decomposition to sodium carbonate, water, and carbon dioxide.

Hazardous Decomposition Products:

Carbon dioxide gas when exposed to high heat, carbon dioxide is an asphyxiant and may affect respiration rate or interfere with breathing.

Hazardous Polymerization: Will not occur.

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SECTION VII Spill and Leak Procedures

Steps to be taken if material is released or spilled:

Sweep up dry and shovel into containers for disposal or, depending on applicable disposal regulations, neutralize with acid. Good ventilation is required during neutralization due to release of CO(2) gas.

Waste Disposal Method:

Observe all federal, state and local laws concerning health and environment. Dispose of containers of dry solid waste in an approved disposal facility. Liquid wastes depending on local regulations may have to be disposed of by an approved contractor, or, alternately, run to sewer with plenty of water.

Material is not a hazardous waste by terms of RCRA 40 CFR 116-117.

Material is not an EPA hazardous substance, as defined in 40 CFR 116-117.

FDA - 21 CFR - GRAS for humans and animals.

USDA - 9 CFR.

SECTION VIII D.O.T. Shipping Information

Proper Shipping Name: NONE
Hazard Class: NONE
ID Number: NONE
Label Requirements: NONE
Reportable Quantity: NONE
Other Information:

SECTION IX Additional Information

This information may be of importance to you:

FDA regulations apply to U.S.P., Food, and Feed grade products (21 CFR) GRAS for humans and animals. Not for food, feed or drug use unless labeled "Food Grade", "Feed Grade" or U.S.P. as applicable. Store in a cool dry area away from acids.

References:

(1) "Registry of Toxic Effects of Chemical Substances" NIOSH
U.S. Dept. HHS, 1979.

HARCROS CHEMICALS INC
KANSAS CITY, KANSAS

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SECTION IX Additional Information
HAZARD RATING NPCAHMIS

CONTINUED

Health	1
Flammability	0
Reactivity	0
Special Protection	X

***** E N D O F R E P O R T *****

NAME: GENE TURNER

DATE ISSUED: 06/20/1986
DATE REVISED: 11/17/1987

< = LESS THAN
> = MORE THAN

N/A = NOT APPLICABLE
N/D = NOT DETERMINED
N/E = NOT ESTABLISHED

UNK = UNKNOWN

The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. Harcros Chemicals Inc provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Harcros Chemicals Inc knows of no medical condition, other than those noted on this material safety data sheet, which are generally recognized as being aggravated by exposure to this product.

