

MATERIAL SAFETY DATA SHEET

I-PRODUCT IDENTIFICATION

Product:

Sodium Bicarbonate

Synonyms:

Alkalinity Increaser

Formula:

NaHCO₃

CAS Number:

144-55-8

II - TRANSPORTATION DATA

U.S. Department of Transportation - 49 CFR

Emergency Telephone Number: Chemtrec 800-424-9300

III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical or Common Name

<u>Percent</u>

CAS Number

Sodium Bicarbonate

99%

144-55-8

IV - PHYSICAL/CHEMICAL CHARACTERISTICS

Odor:

none

Appearance:

white

Molecular Weight:

84.01

Bulk Density:

07.01

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980 g/l

Melting Point:

decomposes without melting to release CO2 and

Na₂CO₃-H₂O

V - FIRE AND EXPLOSION HAZARD DATA

Flash Point:

Non flammable

Permissible Exposure Level (PEL):

15 mg/m³

VI - REACTIVITY DATA

Stability:

() Unstable

(X) Stable

Stable in dry air. In moist air, forms sodium carbonate, an irritant

Conditions to Avoid:

Exposure to incompatible materials and heat

Incompatibility:

Acids, monoammonium phosphate, aluminum and phosphorus pentoxide

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Hazardous Decomposition or By-Products:

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

Hazardous Polymerization:

() May Occur

(X) Will Not Occur

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Spilled Or Released:

Land spill:

Shovel or sweep up and place in container for disposal.

Water spill:

Disperse with water jets, propellers or similar device

Waste Disposal Method:

Dispose of industrial waste or wash to an industrial sewer as permitted by all federal, state and local regulations

Precautions to Be Taken in Handling and Storage:

Avoid contact with eyes, skin and clothing. Avoid breathing dust. Store in cool, dry area away from acids

Other:

Wash thoroughly after handling material

VIII - HEALTH HAZARD DATA

Signs & Symptoms of Exposure:

Eyes:

Can cause irritation

Skin:

Can cause irritation

Effects of overexposure to Material:

Ingestion:

irritation

Inhalation:

breathing or respiratory disorders will be aggravated by

exposure to chemical

Skin Contact:

irritation and redness

Eye Contact:

irritation or redness

Emergency and First Aid Procedures:

Ingestion:

if swallowed, induce vomiting immediately by giving two glasses of water and touching finger to back of throat. Never give anything by mouth to an unconscious person.

Consult a physician

Inhalation:

remove to fresh air

Skin Contact:

thoroughly wash exposed area with water

Eye Contact:

flush with large amounts of water. See physician

IX - CONTROL MEASURES

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Exposure Control/Personal Protection:

Respiratory: use NIOSH approved dust respirator

Ventilation: use general dilution and local exhaust techniques to meet nuisance

dust exposure limit

Skin: gloves of rubber, neoprene or similar material that will not allow

alkaline solutions to penetrate

Eye:

safety glasses or safety goggles

Hygiene:

easily washable clothing. Wash clothing before reuse

X - TOXICITY

Oral LDLo:

1260 mg/kg infant

Oral LD50:

4220 mg/kg rat

Skin Irritant:

30 mg/3 days mild rabbit

XI - ADDITIONAL INFORMATION

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL.

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Revised: 13-May-98