

FISHER SCIENTIFIC CHEMICAL -- SODIUM BICARBONATE, S233 -- 6810-00-241-1143

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Product Identification  
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Product ID:SODIUM BICARBONATE, S233

MSDS Date:06/30/1994

FSC:6810

NIIN:00-241-1143

MSDS Number: CCPHJ

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CHEMICAL

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:800-4

24-9300 (CHEMTREC)

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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Composition/Information on Ingredients  
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Ingred Name:SODIUM BICARBONATE (1:1)

CAS:144-55-8

RTECS #:VZ0950000

Fraction by Wt: 100%

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:SUP DAT: W/INCR IN PLASMA CARBON DIOXIDE & PH & 1 CASE OF  
ALBUMINURIA &

HEMATURIA. INCRD ACIDITY, SODIUM CONTENT (ING 3)  
RTECS #:9999999ZZ

Ingred Name:ING 2: AND VOLUME OF URINE AND CRYSTALLURIA HAVE BEEN  
REPORTED IN RATS.  
RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC: LIFTING UPPER & LOWER LIDS, UNTIL NO  
EVIDENCE OF CHEM REMAINS (AT LEAST 15-20 MIN). GET MED ATTN (ING 5)  
RTECS #:9999999ZZ

Ingred Name:ING 4: IMMED. INGEST: IF VOMITING OCCURS, KEEP HEAD LOWER  
THAN HIPS TO PREVENT ASPIR. TREAT SYMPTOMATICALLY & (ING 6)  
RTECS #:9999999ZZ

Ingred Name:ING  
5: SUPPORTIVELY. GET MED ATTN IF NEEDED. ANTIDOTE: NO  
SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY & SUPPORTIVELY.  
RTECS #:9999999ZZ

Ingred Name:RESP PROT: MUST BE BASED ON SPECIFIC OPERATION, MUST NOT  
EXCEED THE WORKING LIMITS OF RESP & MUST BE APPRVD BY (ING 8)  
RTECS #:9999999ZZ

Ingred Name:ING 7: NIOSH. ANY DUST & MIST RESP. ANY AIR-PURIFYING RESP  
W/HIGH-EFFICIENCY PARTICULATE FILTER. ANY POWERED (ING 9)  
RTECS #:9999999ZZ

Ingred Name:ING 8: AIR-PURIFYING RESP W/DUST & MIST FILTER.  
ANY POWERED  
AIR-PURIFYING RESP W/HIGH-EFFICIENCY PARTICULATE (ING 10)  
RTECS #:9999999ZZ

Ingred Name:ING 9: FILTER. ANY TYPE 'C' SUPPLIED-AIR RESP OPERATED IN  
PRESS-DEMAND/OTHER POS PRESS/CONTINUOUS-FLOW MODE. (ING 11)  
RTECS #:9999999ZZ

Ingred Name:ING 10: ANY SCBA. FOR FIREFIGHTING & OTHER IMMED DANGEROUS  
TO LIFE/HLTH CNDTNS: ANY SCBA THAT HAS FULL FACEPIECE(ING 12)  
RTECS #:9999999ZZ

Ingred Name:ING 11: & IS OPERATED IN PRESS-DEMAND/OTHER POS-PRESS MODE.  
ANY SUPPLIED-AIR RESP

THAT HAS A FULL FACEPIECE & (ING 13)

RTECS #:9999999ZZ

Ingred Name:ING 12: IS OPERATED IN A PRESS-DEMAND/OTHER POS-PRESS MODE  
IN COMBINATION W/AN AUXILIARY SCBA OPERATED IN (ING 14)

RTECS #:9999999ZZ

Ingred Name:ING 13: PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

RTECS #:9999999ZZ

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL RAT): 4220 MG/KG.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:

NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHAL: MAY CAUSE SORE THROAT &  
COUGHING. DUST MAY IRRITATE NOSE, THROAT & LUNGS. SKIN: PRLNG CONT  
MAY CAUSE IRRIT. EYES: DIRECT CONT W/EYES MAY CAUSE IRRIT W/REDNESS  
& PAIN. INGEST: MAY CAUSE IRRIT OF MOUTH, ESOPHAGUS, & STOM. IN  
STOM, CARBON DIOXIDE GAS MAY BE RELEASED, CAUSING DISTENSION, (EFTS  
OF OVEREPOSURE)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ: BELCHING, & POSS RUPTURE  
OF STOM.

DOSES GREATER THAN 5 MG/KG MAY CAUSE ALKALOSIS & EDEMA.

HYPOCALCEMIC TETANY ACCOMPANIED BY HYPOGLYCEMIA, CARPOPEDAL SPASM &  
CARDIOPULM ARREST HAVE ALSO BEEN REPORTED. CHRONIC: SKIN: HUMANS  
EXPOSED INTERMITTENTLY FOR 3 DAYS EXPERIENCED ONLY MILD IRRIT.

ALKALOSIS HAS (SUP DAT)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid:INHAL: REMOVE FROM EXPOS AREA TO FRESH AIR I

MMED. PERFORM

ARTF RESP IF NEC. KEEP PERS WARM & QUIET & AT REST. TREAT  
SYMPTOMATICALLY & SUPPROTIVELY. GET MED ATTN IMMED. SKIN: REMOVE  
CONTAM CLTHG & SHOE S IMMED. WASH W/SOAP/MILD DETERGENT & LGE AMTS  
OF WATER UNTIL NO EVIDENCE OF CHEM REMAINS (AT LEAST 15-20 MIN).

GET MED ATTN IMMED. EYES: WASH IMMED W/LGE AMTS OF WATER/NORM  
SALINE, OCCAS (ING 4)

===== Fire Fighting Measures =====

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WA

TER SPRAY OR FOAM.

FOR LARGER FIRES, USE WATER SPRAY, FOG OR ALCOHOL FOAM.

Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA & FULL PROT EQUIPMENT  
. NO ACUTE HAZARD. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. AVOID  
BREATHING VAPORS/DUSTS; KEEP UPWIND.

Unusual Fire/Explosion Hazard:NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO  
HEAT OR FLAME.

===== Accidental Release Measures =====

Spill Release Procedures:SWEEP UP AND PLACE IN SUITABLE CLEAN, DRY  
CONTAIN

ERS FOR RECLAMATION OR LATER DISPOSAL. DO NOT FLUSH SPILLED  
MATERIAL INTO SEWER. KEEP UNNECESSARY PEOPLE AWAY.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:AVOID REPEATED OR PROLONGED CONTACT  
WITH THIS SUBSTANCE. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

Other Precautions:STORE IN TIGHTLY CLOSED CONTAINERS; PREVENT EXPOSURE  
TO MOISTURE.

===== Exposure Controls/Personnel

Protection =====

Respiratory Protection:THE FOLLOWING RESPS ARE REC BASED ON INFO FOUND  
IN PHYSICAL DATA, TOX & HLTH EFTS SECTIONS. THEY ARE RANKED IN  
ORDER FROM MIN TO MAX RESP PROT. THE SPECIFIC RESP SELECTED MUST BE  
BASED ON CONTAM LEVEL S FOUND IN WORK PLACE, (ING 7)

Ventilation:PROVIDE LOCAL EXHAUST VENTILTION SYSTEM.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment:EMERGENCY EYEWASH AND DELUGE SHOWER  
MEETING

ANSI DESIGN CRITERIA . PROTECTIVE CLOTHING NOT REQUIRED.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

PH: 8.3 @ 0.84% SOLN. MATLS TO AVOID: MONOAMMONIUM PHOSPHATE:

SELF-PROPAGATING RXN W/RAPID BUILD-UP OF PRESS. SODIUM-POTASSIUM  
ALLOY: VIOLENT RXN. EFTS OF OVEREXP: BEEN REPORTED FROM TOPICAL  
APPLICATI ON. INGEST: INGEST OF UP TO 140 G/DAY FOR 3 WKS CAUSED  
CONSIDERABLE WT GAIN DUE TO FLUID RETENTION, ALKALOSIS (ING 2)

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===== Physical/Chemical Properties =====

Spec Gravity:2.159

pH:SUPDAT

Solubility in Water:10%

Appearance and Odor:ODORLESS, WHITE POWDER OR GRANULES WITH A COOLING,  
SLIGHTLY ALKALINE TASTE

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS: MAY REACT VIOLENTLY AND RELEASE CARBON DIOXIDE.

2-FURALDEHYDE: POSSIBLE IGNITION HAZARD. (SUP DAT)

Stability Condition to Avoid:STABLE UNDER NORMAL TEMPERA  
TURES AND  
PRESSURES.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY  
INCLUDE TOXIC OXIDES OF CARBON.

===== Disposal Considerations =====

Waste Disposal Methods:OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS  
WHEN STORING OR DISPOSING OF THIS SUBSTANCE.

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