



chemists helping chemists in research & industry

aldrich chemical co.

® P.O. Box 355, Milwaukee, Wisconsin 53201 USA

Telephone: (414) 273-3850
TWX: (910) 262-3052 Aldrichem MI
Telex: 26 843 Aldrich MI
FAX: (414) 273-4979

ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN WHITEWATER
P O BOX 296
WHITEWATER WI 53190

STEVE ANDERSON

DATE: 01/17/91
CUST#: 523216
PO#: QCI0266

M A T E R I A L S A F E T Y D A T A S H E E T

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IDENTIFICATION

PRODUCT #: 20804-3
CAS #: 1313-84-4
MF: NA2S

NAME: SODIUM SULFIDE NONAHYDRATE, 98%,
A.C.S. REAGENT

chem

SYNONYMS

SODIUM SULPHIDE * SULFURE DE SODIUM (FRENCH) *

TOXICITY HAZARDS

RTECS NO: WE1925000

SODIUM SULFIDE, NONAHYDRATE

TOXICITY DATA

IPR-MUS LD50: 53 MG/KG

COREAF 257,791,63

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN. INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA. SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING. TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE. DISCARD CONTAMINATED SHOES.

PHYSICAL DATA

SPECIFIC GRAVITY: 1.427

CONTINUED ON NEXT PAGE

Belgium/Holland
Aldrich Chemie
Boulevard Lambertoni 140 b6
Bd. Lambertoni 140 b6
B-1030 Bruxelles/Brussel
Telephone:
Belgium 114747
Holland 060224748
Telex: 62302 Alchem B
FAX: 022426216

France
Aldrich-Chimie S.a.r.l.
27, Fosse des Treize
F-67000 Strasbourg
Telephone: 85327010
Telex: 890076 Aldrich F
FAX: 85751283

Italy
Aldrich Chimica S.r.l.
Via Pietro Toselli, 4
20127 Milano
Telephone: 022613689
Telex: 330862 Aldrich I
FAX: 022896301

Japan
Aldrich Japan
Kyodo Bldg. Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo
Telephone: 032580155
FAX: 032580157

Spain
Aldrich Quimica
Apt. de Correos 161
28100 Alcobendas (Madrid)
Telephone: 916639977
Telex: 22189 SAQS-E
FAX: 916638084

United Kingdom
Aldrich Chemical Co., Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP8 4JL
Telephone: 0747922211
Telex: 417238 Aldrich G
FAX: 0747823779

West Germany
Aldrich-Chemie GmbH & Co. KG
D-7924 Steinheim
Telephone: 7329870
Telex: 714838 Aldri D
FAX: 0732987139/239



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A.C.S. REAGENT

----- PHYSICAL DATA -----

APPEARANCE AND ODOR
WHITE CRYSTALLINE CHUNKS

----- FIRE AND EXPLOSION HAZARD DATA -----

EXTINGUISHING MEDIA
WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
FLAMMABLE SOLID.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

----- REACTIVITY DATA -----

INCOMPATIBILITIES
STRONG ACIDS
AIR SENSITIVE
LIGHT SENSITIVE
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
SULFUR OXIDES
HYDROGEN SULFIDE GAS

----- SPILL OR LEAK PROCEDURES -----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD
TREAT A DILUTE BASIC SOLUTION (PH 10-11) OF THE MATERIAL WITH A 50%
EXCESS OF COMMERCIAL LAUNDRY BLEACH. CONTROL THE TEMPERATURE BY THE
ADDITION RATE OF BLEACH AND ADJUST PH IF NECESSARY. LET STAND OVER-
NIGHT. CAUTIOUSLY ADJUST SOLUTION TO PH 7. VIGOROUS EVOLUTION OF GAS
MAY OCCUR. FILTER ANY SOLIDS FOR BURIAL IN A CHEMICAL LANDFILL. PRE-
CIPITATE ANY HEAVY METALS BY ADDITION OF SULFIDE AND ISOLATE FOR BUR-
IAL. ADDITIONAL EQUIVALENTS OF HYPOCHLORITE MAY BE NEEDED IF THE

CONTINUED ON NEXT PAGE

Belgium/Holland
Aldrich Chemie
Boulevard Lambertmont 140 b6
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B-1030 Bruxelles/Brussel
Telephone: 114747
Belgium 060224748
Holland 06224748
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France
Aldrich-Chimie S.r.l.
27, Fosse des Treize
F-67000 Strasbourg
Telephone: 88327010
Telex: 890076 Aldrich F
FAX: 89751283

Italy
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Via Pietro Toselli, 4
20127 Milano
Telephone: 022613689
Telex: 330862 Aldrich I
FAX: 022896301

Japan
Aldrich Japan
Kyodo Bldg. Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo
Telephone: 032580155
Telex: 032580157
FAX: 032580157

Spain
Aldrich Quimica
Apt. de Correas 161
28100 Alcobendas (Madrid)
Telephone: 916639977
Telex: 22189 SAQS-E
FAX: 916638084

United Kingdom
Aldrich Chemical Co., Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP8 4JL
Telephone: 0747822211
Telex: 417238 Aldrich G
FAX: 0747823779

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----- SPILL OR LEAK PROCEDURES -----

METAL CAN BE OXIDIZED TO A HIGHER VALENCE STATE. FOR METAL CARBONYLS, THE REACTION SHOULD BE CARRIED OUT UNDER NITROGEN. OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING. SAFETY SHOWER AND EYE BATH. USE ONLY IN A CHEMICAL FUME HOOD. DO NOT BREATHE DUST. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING. CORROSIVE. TOXIC. KEEP TIGHTLY CLOSED. AVOID CONTACT WITH ACID. HYGROSCOPIC. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. AIR AND LIGHT SENSITIVE. REFRIGERATE.

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ALDRICH



Belgium/Holland
Aldrich Chemie
Boulevard Lambertmont 140 b6
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