ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN
WHITewater
ACCOUNTS PAYABLE
P.O. BOX 296
WHITewater WI 53190-0296

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE 1-314-771-5765
DATE 06/04/96
CUST#: 2-097-94804
PO#: UNI-64248

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

SECTION 1. - - - - - - - CHEMICAL IDENTIFICATION - - - - - - -

CATALOG #: S5881
NAME: SODIUM HYDROXIDE ANHYDROUS PELLETS

SECTION 2. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 1310-73-2
MF: H2O
EC NO: 215-185-5

SYNONYMS
CAUSTIC SODA * HYDROXYDE DE SODIUM (FRENCH) * LEWIS-RED DEVIL LYE *
LYE * NATRIUMHYDROXID (GERMAN) * NATRIUMHYDOXYDE (DUTCH) * SODA LYE *
SODIO(IDROSSIDO DI) (ITALIAN) * SODIUM HYDRATE * SODIUM HYDROXIDE
(ACGIH:OSHA) * SODIUM HYDROXIDE, SOLID (UN1823) (DOT) * SODIUM
HYDROXIDE SOLUTION (UN1824) (DOT) * SODIUM(HYDROXYDE DE) (FRENCH) *
UN1823 (DOT) * UN1824 (DOT) * WHITE CAUSTIC *

SECTION 3. - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS
CORROSIVE
CAUSES BURNS.
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.

SECTION 4. - - - - FIRST-AID MEASURES- - - - - - - - - - - - - -

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.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - - - - - -

EXTINGUISHING MEDIA

CONTINUED ON NEXT PAGE
CUST#: 2-097-94804
PO#: UNF-64248

M A T E R I A L  S A F E T Y  D A T A  S H E E T  P A G E  2

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

CATALOG #: S5881

NAME: SODIUM HYDROXIDE ANHYDROUS PELLETS

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS. DO NOT USE WATER.

SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. ACCIDENTAL RELEASE MEASURES

EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. HANDLING AND STORAGE

REFER TO SECTION 8.

ADDITIONAL INFORMATION
CONTACT WITH ALUMINUM, TIN AND ZINC LIBERATES HYDROGEN GAS. CONTACT WITH NITROMETHANE AND OTHER SIMILAR NITRO COMPOUNDS CAUSES FORMATION OF SHOCK-SENSITIVE SALTS.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.
FACE SHIELD (8-INCH MINIMUM).
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
READILY ABSORBED THROUGH SKIN.
WASH THOROUGHLY AFTER HANDLING.

TOXIC.
CORROSIVE.
KEEP TIGHTLY CLOSED.
EXTREMELY HYDROSCOPIC.
AIR SENSITIVE.
STORE IN A COOL DRY PLACE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR
WHITE PELLETS

CONTINUED ON NEXT PAGE
M A T E R I A L  S A F E T Y  D A T A  S H E E T

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

CATALOG #: S5881
NAME: SODIUM HYDROXIDE ANHYDROUS PELLETS

MELTING POINT: 318 C
VAPOR PRESSURE: <18MM 20 C 3MM 37 C
SPECIFIC GRAVITY: 2.130
VAPOR DENSITY: >1

SECTION 10. - - - - - - - - STABILITY AND REACTIVITY - - - - - - - -

INCOMPATIBILITIES
STABLE WITH OTHER MATERIALS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN.

SECTION 11. - - - - - - - - TOXICOLOGICAL INFORMATION - - - - - - - -

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.
CAUSES SEVERE BURNS.
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.

RTECS #: WB4900000
SODIUM HYDROXIDE

IRRITATION DATA
EYE-MKY 1/2/24H SEV
SKN-RBT 500 MG/24H SEV
EYE-RBT 400 UC MILD
EYE-RBT 1% SEV
EYE-RBT 50 UC/24H SEV
EYE-RBT 1 MG/24H SEV
EYE-RBT 1 MG/30S RINSE SEV

TXAPA9 6,701,64
28ZPK 7,72
OYYAA2 26,627,83
AJOPAA 29,136,46
28ZPK 7,72
TXAPA9 6,701,64
TXYAC 23,281,82

TOXICITY DATA
IPR-MUS LD50:40 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.

SECTION 12. - - - - - - - - ECOLOGICAL INFORMATION - - - - - - - -

CONTINUED ON NEXT PAGE
MATERIAL SAFETY DATA SHEET

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

CATALOG #: S5881
NAME: SODIUM HYDROXIDE ANHYDROUS PELLETS

DATA NOT YET AVAILABLE.

SECTION 13. --- --- --- --- --- DISPOSAL CONSIDERATIONS --- --- --- --- ---

FOR SMALL QUANTITIES: CAUTIOUSLY ADD TO A LARGE STIRRED EXCESS OF WATER. ADJUST THE PH TO NEUTRAL. SEPARATE ANY INSOLUBLE SOLIDS OR LIQUIDS AND PACKAGE THEM FOR HAZARDOUS-WASTE DISPOSAL. FLUSH THE AQUEOUS SOLUTION DOWN THE DRAIN WITH PLENTY OF WATER. THE HYDROLYSIS AND NEUTRALIZATION REACTIONS MAY GENERATE HEAT AND FUMES WHICH CAN BE CONTROLLED BY THE RATE OF ADDITION. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. --- --- --- --- --- TRANSPORT INFORMATION --- --- --- --- ---

CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. --- --- --- --- --- REGULATORY INFORMATION --- --- --- --- ---

EUROPEAN INFORMATION
EC INDEX NO: 011-002-01-3
CORROSIVE
R 35
CAUSES SEVERE BURNS.
S 26
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S 27
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
S 36/39
WEAR SUITABLE PROTECTIVE CLOTHING AND EYE/FACE PROTECTION.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK
ACGIH TLV-CL 2 MG/M3
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FEREC 54,7760,89
MSHA STANDARD: AIR-CL 2 MG/M3
DULYS* 3 233,71
OSHA PEL (GEN INDU): 8H TWA 2 MG/M3
CENRGR 29.1970.1000,94
OSHA PEL (CONSTRUC): 8H TWA 2 MG/M3
CENRGR 29.1970.1000,93
OSHA PEL (SHIPYARD): 8H TWA 2 MG/M3
CENRGR 29.1970.1000,93
OSHA PEL (RED CONT): 8H TWA 2 MG/M3
CENRGR 41.50-204.50,94
OEL-AUSTRALIA: TWA 2 MG/M3 JAN93
OEL-BELGIUM: STEL 2 MG/M3 JAN93
OEL DENMARK: TWA 2 MG/M3 JAN93
OEL-FINLAND: TWA 2 MG/M3 JAN93

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# Material Safety Data Sheet

## Catalog #: 520-30

### Name:
SODIUM HYDROXIDE ANHYDROUS PELLETS

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**SECTION 16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. SIGMA shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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