



chemists helping chemists in research & industry

**aldrich chemical co.**

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DATE: 03/10/87  
CUST # 938609 P.O. #

**M A T E R I A L   S A F E T Y   D A T A   S H E E T**      PAGE: 1

**IDENTIFICATION**

PRODUCT # 22146-5      NAME: SODIUM HYDROXIDE, PELLETS, 97+%, A.C.S.  
CAS # 1310-73-2      REAGENT

**TOXICITY HAZARDS**

RTECS # WB4900000

SODIUM HYDROXIDE

**IRRITATION DATA**

EYE-MKY 1% / 24H SEV  
SKN-RBT 500 MG / 24H SEV  
EYE-RBT 4 GM MLD  
EYE-RBT 1% SEV  
EYE-RBT 50 UG / 24H SEV  
EYE-RBT 1 MG / 24H SEV  
EYE-RBT 100 MG RNS SEV

TXAPA9 6,701.64  
28ZPAK -7.72  
OYYAA2 26,627.83  
AJOPAA 29,1363.46  
28ZPAK -7.72  
TXAPA9 6,701.64  
TXCYAC 23,281.82

**TOXICITY DATA**

IPR-MUS LD50:40 MG/KG

COREAF 257,791.63

**REVIEWS, STANDARDS, AND REGULATIONS**

MSHA STANDARD: AIR-CL 2 MG/M3 DTLVS\* 3,233.71  
OSHA STANDARD: AIR-TWA 2 MG/M3 FEREAC 39,23540.74  
NIOSH REL TO SODIUM HYDROXIDE-AIR: CL 2 MG/M3 / 15M MMWR\*\* 34(1S), 26S.85  
EPA GENETIC TOXICOLOGY PROGRAM, JANUARY 1984  
REPORTED IN EPA TSCA INVENTORY, 1983  
\*NIOSH MANUAL OF ANALYTICAL METHODS, 3RD ED. SEE: METHOD 7401

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.  
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.

**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, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
CALL A PHYSICIAN.  
WASH CONTAMINATED CLOTHING BEFORE REUSE.  
DISCARD CONTAMINATED SHOES.

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CATALOG # 22146-5

NAME: SODIUM HYDROXIDE, PELLETS, 97+%, A.C.S. REAGENT

**----- PHYSICAL DATA -----**

MELTING POINT: 318 C  
SPECIFIC GRAVITY: 2.130

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

**EXTINGUISHING MEDIA**  
USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.  
DO NOT USE WATER.  
**SPECIAL FIRE FIGHTING PROCEDURES**  
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS**  
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

**----- REACTIVITY DATA -----**

**INCOMPATIBILITIES**  
STRONG OXIDIZING AGENTS  
STRONG ACIDS  
ABSORBS CO<sub>2</sub> FROM AIR.  
STRONG OXIDIZING AGENTS  
ORGANIC MATERIALS  
ORGANIC PEROXIDE.  
**HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS**  
NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN

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

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**  
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.  
**WASTE DISPOSAL METHOD**  
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 & LOCAL LAWS.

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

WEAR APPROPRIATE OSHA/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.  
SAFETY SHOWER AND EYE BATH.  
USE ONLY IN A CHEMICAL FUME HOOD.  
FACESHIELD (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.  
HYGROSCOPIC.  
AIR-SENSITIVE.  
STORE IN A COOL DRY PLACE.

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----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

**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.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH 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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