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

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

CATALOG #: 223441
NAME: SODIUM HYDRIDE, DRY, 95%

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

CAS #: 7646-69-7
MF: HNA
EC NO: 231-587-3

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

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA)
HIGHLY FLAMMABLE (EU)
CORROSIVE
CAUSES BURNS.
REACTS VIOLENTLY WITH WATER LIBERATING EXTREMELY
FLAMMABLE GASES.
IN CASE OF FIRE, USE DRY POWDER. NEVER USE WATER.
KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
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.
KEEP TIGHTLY CLOSED.
HANDLE AND STORE UNDER NITROGEN.
OVERPACKED CONTAINER SHOULD BE OPENED ONLY BY A TECHNICALLY
QUALIFIED INDIVIDUAL WHO HAS READ AND UNDERSTOOD THE
ACCOMPANYING HANDLING INSTRUCTIONS.

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

USE APPROVED CLASS D EXTINGUISHERS OR SMOTHER WITH DRY SAND, DRY
GROUND LIMESTONE OR DRY CLAY.
DO NOT USE WATER.
DO NOT USE CARBON DIOXIDE EXTINGUISHER ON THIS MATERIAL.
DO NOT USE HALOCARBON EXTINGUISHERS.

SPECIAL FIREFIGHTING PROCEDURES

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

FLAMMABLE SOLID.

REACTS VIOLENTLY WITH WATER.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

MATERIAL READILY REACTS WITH WATER GENERATING FLAMMABLE AND/OR
EXPLOSIVE HYDROGEN GAS.

UNDER FIRE CONDITIONS, MATERIAL MAY DECOMPOSE
TO FORM FLAMMABLE AND/OR EXPLOSIVE MIXTURES IN AIR.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES- - - - -

EVACUATE AREA.

SHUT OFF ALL SOURCES OF IGNITION.

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.

COVER WITH DRY-LIME, SAND, OR SODA ASH. PLACE IN COVERED CONTAINERS
USING NON-SPARKING TOOLS AND TRANSPORT OUTDOORS.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. - - - - - HANDLING AND STORAGE- - - - -

REFER TO SECTION 8.

ADDITIONAL INFORMATION

DECOMPOSES AT TEMPERATURES ABOVE 435 F(225 C), EVOLVING HYDROGEN GAS.
THERMAL RUNAWAY REACTIONS INVOLVING SODIUM HYDRIDE AND
DIMETHYLFORMAMIDE.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

CHEMICAL SAFETY GOGGLES.

USE ONLY IN A CHEMICAL FUME HOOD.

SAFETY SHOWER AND EYE BATH.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

CORROSIVE.

KEEP TIGHTLY CLOSED.

DO NOT ALLOW CONTACT WITH WATER.

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

PHYSICAL PROPERTIES

MELTING POINT: 800 C (DEC)

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

INCOMPATIBILITIES

ACIDS

ALCOHOLS

DO NOT ALLOW WATER TO ENTER CONTAINER BECAUSE OF VIOLENT REACTION.

CARBON DIOXIDE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

LIBERATES FLAMMABLE/EXPLOSIVE HYDROGEN GAS.

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.

SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
VOMITING.

RTECS #: WB3910000

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

DATA NOT YET AVAILABLE.

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

UNDER AN INERT ATMOSPHERE, CAUTIOUSLY ADD THE MATERIAL TO DRY BUTANOL
IN AN APPROPRIATE SOLVENT. THE CHEMICAL REACTION MAY BE VIGOROUS
AND/OR EXOTHERMIC. PROVISIONS MUST BE MADE FOR THE VENTING OF LARGE
VOLUMES OF HIGHLY FLAMMABLE HYDROGEN AND/OR HYDROCARBON GASES.

NEUTRALIZE THE SOLUTION WITH AQUEOUS ACID. FILTER OFF ANY SOLID RES-
IDUES FOR DISPOSAL AS HAZARDOUS WASTE. BURN THE LIQUID PORTION IN A
CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

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

EUROPEAN INFORMATION

EC INDEX NO: 001-003-00-X

HIGHLY FLAMMABLE

CORROSIVE

R 15

CONTACT WITH WATER LIBERATES EXTREMELY FLAMMABLE GASES.

S 7/8

KEEP CONTAINER TIGHTLY CLOSED AND DRY.

S 24/25

AVOID CONTACT WITH SKIN AND EYES.

S 43

IN CASE OF FIRE, USE DRY POWDER. NEVER USE WATER.

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, ALDRICH, FLUKA 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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