MATERIAL SAFETY DATA SHEET

SECTION 1. -- -- -- -- -- -- CHEMICAL IDENTIFICATION-- -- -- -- -- --
CATALOG #: 223441
NAME: SODIUM HYDRIDE, DRY, 95%

SECTION 2. -- -- -- -- COMPOSITION/INFORMATION ON INGREDIENTS -- -- -- --
CAS #: 7646-69-7
MP: 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/PERSOAL 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.
SATEETY 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 - - - - -
MELTING POINT: 800 C (DEG)

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 #: WB910000

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 RESIDUES 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,
PLUKA 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.
COPYRIGHT 2001 SIGMA-ALDRICH CO.
LICENSE GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY