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

Thomas Hodgkins

MATERIAL SAFETY DATA SHEET

PRODUCT #: 18617-1  
CAS #: 110-72-8  
MF: C4H9LI

NAME: BUTYLLITHIUM, 1.6M SOLUTION IN HEXANes

NO TOXICITY DATA AVAILABLE

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
CAUSES BURNS.
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. MAY CAUSE NERVOUS SYSTEM DISTURBANCES.

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 IMMEDIATELY.

ADDITIONAL INFORMATION
WARNING: CONTAINS N-HEXANE (CAS NO. 110-54-3) A SUSPECTED NEUROTOXIN.

PHYSICAL DATA

SPECIFIC GRAVITY: 0.680
APPEARANCE AND ODOOR: YELLOW LIQUID

FLASHPOINT: 10 F
EXTINGUISHING MEDIA: DRY CHEMICAL POWDER.

CONTINUED ON NEXT PAGE
PRODUCT #: 18617-1
CAS #: 109-72-8
MF: C4H9Li

NAME: BUTYL LITHIUM, 1.6M SOLUTION IN HEXANES

-------- FIRE AND EXPLOSION HAZARD DATA --------
DO NOT USE WATER.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
FLAMMABLE LIQUID.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.
REACTS WITH WATER TO LIBERATE FLAMMABLE AND/OR EXPLOSIVE GAS.
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

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

INCOMPATIBILITIES
ACIDS
ALCOHOLS
SENSITIVE TO AIR
REACTS VIOLENTLY WITH WATER.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE
FLAMMABLE GAS.

-------- SPILL OR LEAK PROCEDURES --------
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
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.

WASTE DISPOSAL METHOD
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 HYDROCABON GASES.
NEUTRALIZE THE SOLUTION WITH AQUEOUS ACID. FILTER OFF ANY SOLID RESIDUES FOR DISPOSAL AS HAZARDOUS WASTE. BURN THE LIQUID PORTION IN A

CONTINUED ON NEXT PAGE
PRODUCT #: 18617-1
CAS #: 1109-72-9
MF: C4H9Li

NAME: BUTYLITHIUM, 1.6M SOLUTION IN HEXANES

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

CHEMICAL INCINERATOR EQUIPPED WITH AN AFTER BURNER AND SCRUBBER.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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

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

USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
FACESHIELD (8-INCH MINIMUM).

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

AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.

CORROSIVE.
NEUROLOGICAL HAZARD.
KEEP TIGHTLY CLOSED.
DO NOT ALLOW CONTACT WITH WATER.

AIR SENSITIVE.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

HAND AND STORE UNDER NITROGEN.

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.

COPYRIGHT 1991 ALDRICH CHEMICAL CO., INC.
LICENSE GRANTED TO MAKE UNLIMITED COPIES FOR INTERNAL USE ONLY.