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

EMERGENCY PHONE 1-414-273-3850

DATE 08/11/99
CUST#: 523216
PO#: CC/ONSRUD

MATERIAL SAFETY DATA SHEET PAGE 1

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 16521-2
NAME: ADIPOYL CHLORIDE, 98%

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 111-50-2
MF: C6H8Cl2O2
EC NO: 203-876-4

SECTION 3. HAZARDS IDENTIFICATION

LABEL PRECAUTIONARY STATEMENTS
CORROSIVE
CAUSES BURNS
REACTS VIOLENTLY WITH WATER.
LACHRYMATORY
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
KEEP CONTAINER TIGHTLY CLOSED IN A COOL WELL-VENTILATED PLACE.

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.
REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
CARBON DIOXIDE.
DRY CHEMICAL POWDER.
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

CONTINUED ON NEXT PAGE

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REACTS VIOLENTLY WITH WATER.
WATER HYDROLYZES MATERIAL LIBERATING ACIDIC GAS WHICH IN CONTACT
WITH METAL SURFACES CAN GENERATE FLAMMABLE AND/OR EXPLOSIVE
HYDROGEN GAS.

SECTION 6. -- -- -- -- ACCIDENTAL RELEASE MEASURES -- -- -- --
EVACUATE AREA.
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.

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.
FACESHIELD (8-INCH MINIMUM).
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
CORROSIVE.
LACHRYMATORY.
KEEP TIGHTLY CLOSED.
MOISTURE SENSITIVE.
STORE IN A COOL DRY PLACE.

SECTION 9. -- -- -- -- PHYSICAL AND CHEMICAL PROPERTIES -- -- -- --
APPEARANCE AND ODOR
COLORLESS TO YELLOW LIQUID

PHYSICAL PROPERTIES
BOILING POINT: 105 °C TO 107 °C/2MM.
FLASHPOINT: >230 °C/109°C
SPECIFIC GRAVITY: 1.259

SECTION 10. -- -- -- -- STABILITY AND REACTIVITY -- -- -- --
INCOMPATIBILITIES
WATER
ALCOHOLS
OXIDIZING AGENTS

CONTINUED ON NEXT PAGE
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STRONG BASES

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE
HYDROGEN CHLORIDE GAS
PHOSGENE GAS

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

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 RESULT IN 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.

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

DATA NOT YET AVAILABLE.

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

THE MATERIAL SHOULD BE IGNITED IN THE PRESENCE OF SODIUM CARBONATE
AND SLAILED LIME (CALCIUM HYDROXIDE). THE SUBSTANCE SHOULD BE MIXED
WITH VERMICULITE AND THEN WITH THE DRY CAUSTICS, WRAPPED IN PAPER AND
BURNED 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
CORROSIVE
R 34
CAUSES BURNS.
R 14
REACTS VIOLENTLY WITH WATER.
S 26
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
S 36/37/39
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE

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CATALOG #: 16521-2
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PROTECTION.
S 27
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
S 3/7/9
KEEP CONTAINER TIGHTLY CLOSED IN A COOL WELL-VENTILATED PLACE.

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. 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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