

ALBAN SCIENTIFIC INC -- PERMAFIX FORMALIN 10% BUFFERED -- 6550-01-199-3288

===== Product Identification =====

Product ID:PERMAFIX FORMALIN 10% BUFFERED

MSDS Date:06/01/1993

FSC:6550

NIIN:01-199-3288

MSDS Number: BSHNT

=== Responsible Party ===

Company Name:ALBAN SCIENTIFIC INC

Address:3501 SOUTH BROADWAY

City:ST LOUIS

State:MO

ZIP:63118

Country:US

Info Phone Num:314-772-4114

Emergency Phone Num:31

4-772-4114

CAGE:04680

=== Contractor Identification ===

Company Name:ALBAN SCIENTIFIC INC

Address:3501 SOUTH BROADWAY

Box:City:ST LOUIS

State:MO

ZIP:63118

Country:US

Phone:314-772-4114

CAGE:04680

===== Composition/Information on Ingredients =====

Ingred Name:FORMALDEHYDE (SARA III)

CAS:50-00-0

RTECS #:LP8925000

Fraction by Wt: 37% %

Other REC Limits:NONE RECOMMENDED

OSHA PEL:SEE 1910.1048

ACGIH TLV:C 0.3 PPM; A2; 9394

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:METH

YL ALCOHOL (METHANOL) (SARA III)
CAS:67-56-1
RTECS #:PC1400000
Fraction by Wt: 12-15% %
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S,200PPM
ACGIH TLV:S,200PPM/250STEL; 94
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: MATRIX
Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:SEVERE IRRITATION AND INFLAMMATION OF THE MOUTH, THROAT, STOMACH. SEVERE STOMACH PAINS, LOSS OF CONSCIOUSNESS, DEATH. HIHGLY IRRITATING TO UPPER RESPIRATORY TRACT AND EYES. MAY CAUSE SEVERE RESPIRATOR Y TRACT INJURY LEADING TO PULMONARY EDEMA AND PNEUMONITIS. FORMALIN IS A SKIN IRRITATNT AND SENSITIZER. EYE IRRITATION
Explanation of Carcinogenicity:CONTAINS F [50-00-0] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.
Effects of Overexposure:IRRITATION/INFLAMMATION OF MOUTH, THROAT, STOMACH, SKIN, EYES, UPPER RESPIRATORY TRACT. TEARING OF EYES, BURNING OF NOSE AND THROAT, COUGH, DEATH, PERMANENT CORNEAL CLOUDING AND LOSS OF VISION.
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING DISEASE IN OR A HISTORY OF AILMENTS INVOLVING THE PANCREAS, SKIN, CNS, OR RESPIRATORY TRACT ARE AT A GREATER THAN NORMAL RISK WHEN EXPOSED TO THIS MATERIAL.

===== First Aid Measures =====

First Aid:INHALATION: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET. GET MEDICAL ATTENTION. SKIN: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. INGESTION: DILUTE, INACTIVATE OR ABSORB THE INGESTED MATERIAL. DO NOT INDUCE VOMITING. CALL

PHYSICIAN.

===== Fire Fighting Measures =====

Flash Point:141F,61C
Lower Limits:6-7 %
Upper Limits:36-73 %
Extinguishing Media:USE DRY CHEMICAL, "ALCOHOL FOAM", CARBON DIOXIDE,
WATER IN FLOODING AMOUNTS AS FOG
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AIR
AND CAN TRAVEL
CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION AND FLASHBACK.

===== Accidental Release Measures =====

Spill Release Procedures:ELIMINATE IGNITION SOURCES. AVOID EYE AND SKIN
CONTACT. PLACE LEAKING CONTAINERS IN WELL VENTILATED AREA. IF FIRE
POTENTIAL EXISTS, BLANKET SPILL WITH FOAM OR USE WATER SPRAY TO
DISPERSE VAPORS.
Neutralizing Agent:NEUTRALIZE WITH AMMONIUM HYDROXIDE

===== Handling and Storage =====
=====

Handling and Storage Precautions:STORE IN A COOL, WELL VENTILATED AREA.
KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINERS CLOSED.
AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES.
Other Precautions:WASH CLOTHING THOROUGHLY IF EXPOSED. DO NOT ENTER
STORAGE AREA UNLESS WELL VENTILATED.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE FULL FACE NIOSH APPROVED FORMALDEHYDE OR
ACID GAS CARTRIDGE OR CANNISTER RESPIRATOR WITHIN USE
LIMITATIONS
OF THESE DEVICES; IN ALL OTHER SITUATIONS, USE SELF CONTAINED
BREATHING APPARATUS.
Ventilation:LOCAL EXHAUST IS RECOMMENDED WHEN APPROPRIATE TO CONTROL
EXPOSURE.
Protective Gloves:RUBBER
Eye Protection:SAFETY GOGGLES
Other Protective Equipment:IMPERVIOUS BODY COVERING AND BOOTS.
Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT
AND BEFORE EATING DRINKING OR SMOKING.
Supplemental Safety and Health
NONE SPECIFIED BY MANUFACTURER.

=====

===== Physical/Chemical Properties =====

HCC:F4

Boiling Pt:B.P. Text:50.0F,10.0C

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:67-88

Vapor Density:> 1

Spec Gravity:< 1

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:NOT GIVEN

Appearance and Odor:CLEAR, COLORLESS, MOBILE LIQUID, STRONG, PUNGENT,
CHARACTERISTIC ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CAUSTIC SODA, SLDA ASH AND OTHER

ALKALIS, SODIUM, POTASSIUM, AND OTHER

ALKALI METALS, HYDROGEN PEROXIDE, STRONG OXIDIZER

Stability Condition to Avoid:HEAT, SPARKS, FLAMES

Hazardous Decomposition Products:CARBON MONOXIDE

===== Disposal Considerations =====

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING
ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR
LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.