

POLYSCIENCES,INC. -- FORMALDEHYDE -- 6550-01-360-2122

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

Product ID: FORMALDEHYDE
MSDS Date: 06/26/1989
FSC: 6550
NIIN: 01-360-2122
MSDS Number: BYFCN
=== Responsible Party ===
Company Name: POLYSCIENCES, INC.
Address: 400 VALLEY ROAD
City: WARRINGTON
State: PA
ZIP: 18976
Country: US
Info Phone Num: 215-343-6484
Emergency Phone Num: 215-343-6484
CAGE: 32939
=== Contractor Identification ===
Company Name: POLYSCIENCES INC
Address: 400 VALLEY RD
Box: City: WARRINGTON
State: PA
ZIP: 18976
Country: US
Phone: 215-343-6484
CAGE: 32939

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

Ingred Name: FORMALDEHYDE
CAS: 50-00-0
RTECS #: LP8925000
Fraction by Wt: 10%
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 200 PPM
ACGIH TLV: 200 PPM
EPA Rpt Qty: 100 LBS
DOT Rpt Qty: 100 LBS

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

Routes of Entry: Inhalation: YE

S Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:IRRITANT. SENSITIZER. LACHRYMATOR.
HIGHLY TOXIC. MUTAGEN.

Explanation of Carcinogenicity:SUSPECTED CARCINOGEN (ACGIH), ANIMAL
SUFFICIENT EVIDENCE (AIRC), HUMAN INADEQUATE EVIDENCE (IARC).

Effects of Overexposure:IRRITATION OF EYES, NOSE, THROAT AND LUNGS.
TEARING OF EYES, COUGHING, DIFFICULTY BREATHING, NAUSEA, HEADACHE,
OR WEAKNESS.

Medical Cond Aggravated by Exposure

:INDIVIDUALS WITH PREEXISTING

DISEASES OF LUNG AND SKIN MAY BE MORE SUSCEPTIBLE.

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

First Aid:SKIN: WASH AFFECTED AREA WITH COPIOUS AMOUNTS OF WATER.
REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE RESUE. EYE: FLUSH
EYES WITH WATER FOR AT LEAST 15 MINUTES. CALL PHYSICIAN. INHALED:
REMOVE TO FR ESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS
NEEDED. INGESTED: DRINK 1 OR 2 GLASSES OF WATER. INDUCE VOMITING.

GIVE ACTIVATED CHARCOAL SLURRY. CALL PHYSICIAN.

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

Flash Point Method:CC

Flash Point:122F,50C

Lower Limits:7

Upper Limits:73

Extinguishing Media:WATER, CARBON DIOXIDE, DRY CHEMICAL POWDER, FOAM

Fire Fighting Procedures:FIREFIGHTERS MUST WEAR SELF-CONTAINED
BREATHING APPARATUS AND FULLY PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:NE

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

Spill Release

Procedures:WEAR SCBA, RUBBER BOOTS AND GLOVES. TURN OFF
ALL IGNITION SOURCES. COVER SPILLED MATERIAL WITH SODA ASH, OR DRY
LIME, SWEEP UP AND COLLECT FOR DISPOSAL. WASH & VENTILATE SPILL
SITE AFTER PICKUP IS COM PLETE.

Neutralizing Agent:SODA ASH OR DRY LIME.

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

Handling and Storage Precautions:STORE MATERIAL AT ROOM TEMPERATURES.
KEEP STORAGE CONTAINER TIGHTLY CLOSED. AVOID PROLONGED OR FREQUENT
EXPOSURE. WA

SH THOROUGHLY AFTER HANDLING.

Other Precautions:NONE

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

Respiratory Protection:OSHA/NIOSH APPROVED RESPIRATOR.

Ventilation:FUME HOOD.

Protective Gloves:RUBBER.

Eye Protection:SAFETY GOGGLES.

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health

FORMALDEHYDE IS AN OSHA REGULATED CARCINOGEN, (HMIS).

===== Physic
al/Chemical Properties =====

HCC:F6

Boiling Pt:>93.C, 199.4F

Vapor Pres:17-20 MMHG

Vapor Density:1

Spec Gravity:1.08-1.13

Evaporation Rate & Reference:>1 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETE.

Appearance and Odor:CLEAR, COLORLESS LIQUID, TURNS MILKY WHITE UPON
COOLING. PUNGENT ODOR.

Percent Volatiles by Volume:98

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

Stability Indicator/Materials to Avoid:YES

REACTION WITH PHENOL, STRONG ACIDS, OR
ALKALIS MAY BE VIOLENT. REACTION

WITH HYDROCHLORIC ACID FORM BIS-CHLOROMETHYL.

Stability Condition to Avoid:COOL TEMPERATURES.

Hazardous Decomposition Products:FORMALDEHYDE GAS IS RELEASED SLOWLY AT
ELEVATED TEMPERATURES.

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

Waste Disposal Methods:MIX WASTE WITH A COMBUSTIBLE CARRIER AND BURN IN
A SUITABLE EQUIPPED CHEMICAL INCINERATOR. DISPOSAL MUST COMPLY WITH
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.