

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 LAUNDRER 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).

===== Physical/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.

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