

## **FORMALDEHYDE**

### **MSDS Number**

BCXGD

### **National Stock Number**

6810-00-069-2958

### **Product Name**

FORMALDEHYDE

### **Manufacturer**

MALLINCKRODT INC SCIENCE PRODUCTS DIV

### **Product Identification**

Product ID: FORMALDEHYDE

MSDS Date: 01/20/1988

FSC: 6810

NIIN: 00-069-2958

MSDS Number: BCXGD

### **Responsible Party**

MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION

PARIS BYPASS

PARIS , KY 40361

Emergency Phone: 314-982-5000

Info Phone: 314-982-5000

Preparer: NOT PROVIDED

Cage: 62910

### **Contractor**

MALLINCKRODT SPECIALTY CHEMICALS CO

PHILLIPSBURG, NJ 08865

US

908-859-2151

Cage: 62910

### **Ingredients**

FORMALDEHYDE (SARA III)

CAS: 50-00-0

RTECS: LP8925000

Fraction By Weight: 37.0%

OSHA PELSEE 1910.1048

ACGIH TLV: C 0.3 PPM; A2; 9293

EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

METHANOL (METHYL ALCOHOL)

CAS: 67-56-1

RTECS: FC1400000

Fraction By Weight: 10-15%

OSHA PELS,200PPM/250STEL  
ACGIH TLV: S,200PPM/250STEL; 93  
EPA Report Quantity: 5000 LBS  
DOT Report Quantity: 5000 LBS

WATER WT% BY DIFFERENCE

CAS: 7732-18-5

RTECS: ZC0110000

Fraction By Weight: 48-53%

## Hazards

LD50 LC50 Mixture:LD50 ORAL RAT=800MG/KG  
Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:ACUTE:SEE SIGNS & SYMPTOMS OF  
OVEREXPOSURE. CHRONIC:HYPERSENSITIVITY LEADING TO CONTACT  
DERMATITIS,ALLERGIC REACTION,VISION IMPAIRMENT,ENLARGEMENT OF  
LIVER.  
Explanation of Carcinogenicity:FORMALDEHYDE IS A SUSPECTED HUMAN  
CARCINOGEN.  
Effects of Overexposure:EYES:IRRITATION,REDNESS,PAINS,BLURRED  
VISION,IRREVERSIBLE EYE  
DAMAGE;SKIN:REDNESS,PAIN,BURNS,DISCOLORATION,CRACKING,SCALING;SKIN  
ABSORPTION:SAME SYMPTOMS AS INGESTION;INHALATION:SORE  
THROAT,COUGH,SHORTNESS OF BREATH,IRRITATION,SEVERE RESPIRATORY  
TRACT INJURY LEADING TO PULMONARY EDEMA & PNEUMONITIS-SEE  
SUPPLEMENTAL DAT  
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN  
DISORDERS,EYE PROBLEMS,OR IMPAIRED LIVER,KIDNEY OR RESPIRATORY  
FUNCTION.

## First Aid

First Aid:EYES:WASH WITH PLENTY OF WATER FOR 15 MINUTES.SEE DOCTOR  
IMMEDIATELY;SKIN:FLUSH WITH PLENTY OF WATER FOR 15 MINUTES WHILE  
REMOVING CONTAMINATED CLOTHING & SHOES;INHALATION:REMOVE TO FRESH  
AIR.GIVE CPR /OXYGEN IF NEEDED.SEE DOCTOR;INGESTION:GIVE 2 GLASSES  
OF WATER.INDUCE VOMIT.NOTHING BY MOUTH IF UNCONSCIOUS.SEE DOCTOR  
IMMEDIATELY.

## Fire Fighting

Flash Point:=60.C, 140.F  
Autoignition Temp:=300.C, 572.F  
Lower Limits:7.0  
Upper Limits:73  
Extinguishing Media:WATER SPRAY CAN BE USED TO EXTINGUISH FIRES & COOL  
FIRE EXPOSED CONTAINERS.  
Fire Fighting Procedures:WEAR SCBA & PROTECTIVE CLOTHING. WATER MAY BE  
USED TO FLUSH SPILLS & TO DILUTE SPILLS TO NON-FLAMMABLE MIXTURE.  
Unusual Fire/Explosion Hazard:ABOVE FLASH POINT,VAP-AIR MIXTURES ARE  
EXPLOSIVE WITHIN FLAMMABLE LIMITS; AUTO IGN TEMP:300C(572F)

## Accidental Release

Spill Release Procedures:ELIM IGN SOURCES,VENTLT & EVAC AREA.USE  
PROTECTV CLTHG/RESP PROTECTION FM VAP.CONTAIN & RECOVER LIQ IF  
POSS.ABSORB W/VRMCULITE,EARTH,ETC.SCOOP UP W/NON-SPARKG TOOLS &  
PLACE IN CLOSD CNTNRS.USE H\*2O SPRAY TO DISPERSE VAP/COOL CNTNR.DO  
NOT FLUSH TO SEWR.

## Handling

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE.STORE  
IN COOL,DRY WELL VNTLTD AREA AWAY FM ING/HEAT SOURCES,OXIDZG  
MATL.OUTSIDE OR DETACHED STORAGE IS PREFERRED.

Other Precautions:KEEP AWAY FROM HEAT,SPARKS,FLAMES.KEEP CONTNRS CLOSED.USE W/ADEQUATE VENT.AVOID BRTHG VAP.WASH THOROUGHLY AFTER HNDLG.BOND/GROUND CONTNRS WHEN TRNSFRG MATERL.USE NON-SPARKG TYPE TOOL & EQUIP.

## Exposure Controls

Respiratory Protection:SCBA, SUPPLIED AIR RESPIRATOR  
Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.  
Protective Gloves:IMPERVIOUS  
Eye Protection:GOGGLES/FACE SHIELD  
Other Protective Equipment:FULL PROTECTIVE CLOTHING,SAFETY SHOWER,EYE WASH STATION  
Work Hygienic Practices:WASH HANDS,FACE,FOREARMS & NECK WHEN EXITING RESTRICTED AREAS-SEE SUPPLEMENTAL DATA.  
Supplemental Safety and Health  
CONT'D FROM SIGNS & SYMPTOMS OF OVEREXPOSURE;MAY BE FATAL IN HIGH CONCENTRATIONS;INGESTION:SEVERE ABDOMINAL PAIN,VIOLENT VOMIT,HEADACHE,DIARRHEA,DECREASED BODY TEMPERATURE,PAIN IN DIGESTIVE TRACT,SHAL LOW RESPIRATION,WEAK IRREGULAR PULSE,UNCONSCIOUSNESS,DEATH.METHANOL COMPONENT AFFECTS OPTIC NERVE & MAY CAUSE BLINDNESS.

## Chemical Properties

HCC:F6  
NRC/State Lic Num:NOT RELEVANT  
Boiling Pt:=-96.1C, 205.F  
Melt/Freeze Pt:=-15.C, 5.F  
Vapor Density:1.04  
Spec Gravity:1.08  
Solubility in Water:COMPLETE  
Appearance and Odor:CLEAR,COLORLESS LIQUID. PUNGENT ODOR.

## Stability

Stability Indicator/Materials to Avoid:YES  
OXIDIZERS,ALKALIES,PERCHLORIC ACID,NITROGEN DIOXIDE,NITROMETHANE,HYDROCHLORIC ACID.  
Stability Condition to Avoid:HEAT, IGNITION SOURCES  
Hazardous Decomposition Products:CO

## Disposal

Waste Disposal Methods:COLLECT SPILLS & ATOMIZE IN A RCRA-APPROVED COMBUSTION CHAMBER.BEFORE ATOMIZING,DISSOLVE IN AN APPROPRIATE COMBUSTIBLE SOLVENT.WASTE CAN BE DISPOSED IN A RCRA APPROVED FACILITY.ENSURE COMPLIANCE W/LOC AL,STATE & FED REGS: CWA/CERCL RQ:1000 LBS.

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.