

J.T.BAKER CHEMICAL CO -- FORMALDEHYDE, 37% SOLUTION -- 6810-00-242-3643

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Product Identification
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Product ID: FORMALDEHYDE, 37% SOLUTION

MSDS Date: 05/22/1990

FSC: 6810

NIIN: 00-242-3643

MSDS Number: BDMSK

=== Responsible Party ===

Company Name: J.T.BAKER CHEMICAL CO

Address: 222 RED SCHOOL LANE

City: PHILLIPSBURG

State: NJ

ZIP: 08865

Country: US

Info Phone Num: 800-JTBAKER

Emergency Phone Num: 201-

859-2151/800-424-9300(CHEMTR)

CAGE: DO870

=== Contractor Identification ===

Company Name: J.T.BAKER CHEMICAL CO.

Address: 222 RED SCHOOL LANE

City: PHILLIPSBURG

State: NJ

ZIP: 08865-2219

Country: US

Phone: 201-859-2151

CAGE: DO870

Company Name: MALLINCKRODT BAKER, INC.

Address: 222 RED SCHOOL LANE

Box: City: PHILLIPSBURG

State: NJ

ZIP: 08865

Country: US

Phone: 800-582-2537

CAGE: 70829

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Composition/Information on Ingredients
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Ingred Name: FORMALDEHYDE (SARA III)

CAS: 50-00-0

RTECS #: LP

8925000

Fraction by Wt: 37%

Other REC Limits:NONE SPECIFIED

OSHA PEL:SEE 1910.1048

ACGIH TLV:C 0.3 PPM; A2; 9293

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)

CAS:67-56-1

RTECS #:PC1400000

Fraction by Wt: 10-15%

Other REC Limits:NONE SPECIFIED

OSHA PEL:S,200PPM/250STEL

ACGIH TLV:S,200PPM/250STEL; 93

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:WATER.

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 47-53%

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Hazards Identification =====

LD50 LC50 Mixture:LD50(ORAL RAT) IS 800 MG/KG-FORMALDEHYDE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE-EYE:VAPORS CAUSE IRRITATION.

SPLASHES MAY CAUSE IRREVERSIBLE DAMAGE. SKIN:MAY CAUSE BURNS,
SEVERE IRRITATION. INHALATION:IRRITATION OF RESPIRATORY TRACT.

INGESTION:MAY BE FATAL. MAY CAUSE GI IRRITATION, BURNS TO MOUTH
AND THROAT. CHRONIC

-KIDNEY AND LIVER DAMAGE, SKIN SENSITIZATION.

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:EYE:TEARING, SEVERE EYE IRRITATION & BURN.

SKIN:DRYING, CRACKING OF SKIN. INHALATION:HEADACHE, NAUSEA,
VOMITING, DIZZINESS, VOMITING, DROWSINESS. INGESTION:NAUSEA,

VOMITING, SEVERE STOMACH PAIN, SEVERE IRRITATION AND INFLAMMATION
OF MOUTH, THROAT AND STOMACH. BLINDNESS OR DEATH MAY

OCCUR.

Medical Cond Aggravated by Exposure:EYE, SKIN, LIVER, KIDNEY AND RESPIRATORY DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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

First Aid:INHALATION:REMOVE TO FRESH AIR, PROVIDE CPR/OXYGEN IF NEEDED.
EYE CONTACT:FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL HELP. SKIN CONTACT:WASH WITH SOAP AND WATER. GET MED ATTENTION IF SYMPTOMS PERSIS T. INGESTION:INDUCE VOMITING, DRINK 1-2GLASSES OF WATER. GET MEDICAL HELP IMMEDIATELY.

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

Flash Point:140F,60C
Autoignition Temp:Autoignition Temp Text:858F
Lower Limits:7.0%
Upper Limits:73.0%
Extinguishing Media:ALCOHOL FOAM, DRY CHEMICALS, CARBON DIOXIDE, WATER SPRAY.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR, MAY SETTLE AT LOW AR
EAS OR TRAVEL SOME DISTANCE ALONG THE GROUND TO IGNITION SOURCES WHERE THEY MAY IGNITE & FLASH BACK.

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

Spill Release Procedures:VENTILATE AREA.REMOVE ALL SOURCES OF IGNITION.WEAR PROTECTIVE CLOTHING & RESPIRATOR.DO NOT FLUSH TO SEWER OR SURFACE WATERS. ABSORB WITH INERT MATERIAL AND PLACE INTO CONTAINERS FOR LATER DISPOSAL.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORAGE-STORE IN A DRY, WELL VENTILATED AREA ABOVE 15C. STORE WITH FLAMMABLE LIQUIDS.
Other Precautions:PROTECT CONTAINER FROM FREEZING AND PHYSICAL DAMAGE. STORAGE AND USE AREAS SHOULD BE NO SMOKING AREAS.WEAR SPECIAL PROTECTIVE EQUIPMENT FOR MAINTENANCE BREAK-IN.

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

Respiratory Protection:USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IF TLV

IS EXCEEDED OR WHEN USING IN CONFINED SPACES.

Ventilation:LOCAL OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS.

Protective Gloves:CHEMICAL RESISTANT GLOVES

Eye Protection:CHEMICAL SAFETY GOGGLES/FULL FACE SHIELD

Other Protective Equipment:EYEWASH STATION AND SAFETY SHOWER.WEAR IMPERVIOUS CLOTHING,INCLUDING BOOTS,GLOVES,LAB COAT,APRON OR COVERALLS.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROC

EDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

THE PERCEPTION OF FORMALDEHYDE BY ODOR AND EYE IRRITATION BECOMES LESS SENSITIVE WITH TIME AS ONE ADAPTS TO FORMALDEHYDE. THIS CAN LEAD TO OVEREXPOSURE. HCC WAS DETERMINED BASED ON HIERCHY TABLE B-3 IN DLAM 4145.11/TM 38-410/NAVSUP PUB 573/AFJMAN 23-209/MCO 4450.12A.

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

HCC:F4

Boiling Pt:B.P. Text:204F,96C

Vapor Pres:1.3

Vapor

Density:1.0

Spec Gravity:1.08

pH:2.8

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR COLORLESS LIQUID,PUNGENT ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, STRONG ALKALIES AND ACIDS, ALKALI METALS, AMINES AND AMMONIA, PHENOL AND REDUCING AGENTS.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:FORMALDEHYDE AN

D CARBON MONOXIDE AND

CARBON DIOXIDE.

Conditions to Avoid Polymerization:TRIOXYMETHYLENE PRECIPITATE CAN BE FORMED ON LONG STANDING AT VERY LOW TEMP. NONHAZARDOUS PARAFORMALDEHYDE AT LOW TEMP.

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

Waste Disposal Methods:DISPOSE OF IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. EPA HAZ WASTE # U122(TOXIC WASTE). IF SPILL IS IN EXCESS OF EPA REPORTABLE QUANTITY, N

NOTIFY THE NATIONAL RESPONSE CENTER (800-424-8802).

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