

FORMALDEHYDE SOLUTION, 37%; (15% METHANOL)

MSDS Number

BHCHZ

National Stock Number

6750-00-053-8364

Product Name

FORMALDEHYDE SOLUTION, 37%; (15% METHANOL)

Manufacturer

SPECTRUM CHEMICAL MANUFACTURING CORP

Product Identification

Product ID: FORMALDEHYDE SOLUTION, 37%; (15% METHANOL)

MSDS Date: 11/24/1986

FSC: 6750

NIIN: 00-053-8364

MSDS Number: BHCHZ

Responsible Party

SPECTRUM CHEMICAL MANUFACTURING CORP.

14422 SOUTH SAN PEDRO STREET

GARDENA, CA 90248-2027

US

Emergency Phone: 213-516-8000

Info Phone: 213-516-8000

Cage: 63415

Contractor

SPECTRUM LABORATORY PRODUCTS INC

GARDENA, CA 90248-2027

US

310-516-9843

Cage: 63415

Ingredients

FORMALDEHYDE (SARA III)

CAS: 50-00-0

RTECS: LP8925000

OSHA PELSEE 1910.1048

ACGIH TLV: C 0.3 PPM; A2; 9293

EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

METHYL ALCOHOL (METHANOL) (SARA III)

CAS: 67-56-1

RTECS: PC1400000

OSHA PELS, 200PPM/250STEL

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

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

WATER

CAS: 7732-18-5

RTECS: ZC0110000

Hazards

LD50 LC50 Mixture:ORAL RAT LD50 = 800 MG/KG

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

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

Health Hazards Acute and Chronic:ACUTE: INHALATION: MAY CAUSE TISSUE DAMAGE AND SERIOUS RESPIRATORY TRACT INJURY. SKIN: MAY CAUSE BURNS. EYES: MAY CAUSE PROFUSE LACRIMATION AND OCULAR DAMAGE. INGESTION: MAY CAUSE BURNING IN THE MOUTH AND ESOPHAGUS. MAY CAUSE LIVER AND KIDNEY DAMAGE. MAY COUSE DEATH FROM CIRCULATORY FAILURE. CHRONIC: SAME AS ACUTE.

Explanation of Carcinogenicity:STUDIES SHOW THAT REPEATED EXPOSURE TO LEVELS UP TO 14.3 PPM INDUCED NASAL CAVITY SQUAMOUS CELL CARCINOMA IN RATS.

Effects of Overexposure:INHALATION: MAY CAUSE EYE, NOSE & THROAT IRRITATION. MAY CAUSE DIFFICULTY IN BREATHING, BURNING OF THE NOSE & THROAT; OR EVEN PULMONARY EDEMA AND PNEUMONITIS. SKIN & EYES: IRRITATION, SENSITIZATION DE RMATITIS, LOSS OF VISION. INGESTION: JAUNDICE, ALBUMINURIA, HEMATURIA, ANURIA AND ACIDOSIS. MAY CAUSE DEATH.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF SKIN OR EYE DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE. PERSONS WITH LIVER, KIDNEY AND RESPIRATORY DISORDERS MAY ALSO BE AT INCREASED RISK.

First Aid

First Aid:INHALATION: REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, GIVE CPR. GET IMMEDIATE MEDICAL CARE. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH SOAP & WATER.LAUNDER CLOTHS BEF ORE REUSE. GET MEDICAL CARE. EYE: WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL CARE. INGESTION: DO NOT INDUCE VOMITING. GIVE MILK OR WATER. GET MEDICAL CARE.

Fire Fighting

Flash Point Method:CC

Flash Point:122F,50C

Autoignition Temp:Autoignition Temp Text:806F

Lower Limits:7

Upper Limits:73

Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER 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:CONTAINERS MAY BURST WHEN EXPOSED TO HEAT OF FIRE. MAY EMIT TOXIC VAPORS UNDER FIRE CONDITIONS.

Accidental Release

Spill Release Procedures:TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL. APPLY UNIVERSAL GELLING AGENT TO IMMOBILIZE SPILL AS REQUIRED. VENTILATE AND EVACUATE AREA. ELIMINATE ALL SOURCES OF IGNITION. NEUTRALIZE & WASH RESIDUE WITH WATER. PLACE INTO DISPOSAL CONTAINER.

Neutralizing Agent:CEMENT POWDER OR FLY ASH

Handling

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM IGNITION SOURCES. KEEP CONTAINER CLOSED WHEN NOT IN USE. PROTECT AGAINST PHYSICAL DAMAGE.

Other Precautions:MAY BE IGNITED BY HEAT, SPARKS OR FLAMES. CONTAINER MAY EXPLODE IN HEAT OF FIRE. VAPOR EXPLOSION HAZARD INDOORS, OUTDOORS OR IN SEWERS. RUN-OFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

Exposure Controls

Respiratory Protection:SELECT NIOSH/MSHA APPROVED RESPIRATOR BASED ON CONTAMINATION LEVELS FOUND IN THE WORK PLACE. SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED AIR RESPIRATOR IS RECOMMENDED FOR MOST CASES.

Ventilation:PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MEET PEL/TLV. USE EXPLOSION-PROOF EQUIPMENT.

Protective Gloves:BUTYL OR NITRILE RUBBER.

Eye Protection:SPLASH PROOF SAFETY GOGGLES/FACESHIELD.

Other Protective Equipment:PROTECTIVE CLOTHING AND EQUIPMENT TO PREVENT ANY POSSIBILITY OF SKIN CONTACT. EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER USE AND BEFORE EATING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

THIS MATERIAL CONTAINS METHANOL WHICH MAY CAUSE BLINDNESS AND/OR DEATH IF INGESTED. HCC WAS DETERMINED BASED ON HIERCHY TABLE B-3 IN DLAI 4145.11/TM 38-410/NAVSUP PUB 573/AFJMAN 23-209/MCO 4450.12A

Chemical Properties

HCC:F4

Boiling Pt:B.P. Text:205F,96C

Melt/Freeze Pt:M.P/F.P Text:5F,-15C

Vapor Density:1.0

Spec Gravity:1.03

pH:2.8/4.

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR COLORLESS LIQUID, PUNGENT ODOR

Stability

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, ACIDS, BASES, ANILINE, PHENOL

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

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE UNBURNED FORMALDEHYDE, UNBURNED METHYL ALCOHOL, AND OXIDES OF CARBON.

Conditions to Avoid Polymerization:MAY UNDERGO A NON-HAZARDOUS SELF-POLYMERIZATION TO FORM PARAFORMALDEHYDE OR MAY REACT VIOLENTLY WITH ANILINE OR PHENOL.

Disposal

Waste Disposal Methods:DISPOSE I/A/W ALL APPLICABLE FEDERAL, STATE & LOCAL REGULATIONS. INCINERATION RECOMMENDED.

Toxicology

Toxicological Information:NOT PROVIDED

Other Information

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

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Ecology

Ecological:NOT PROVIDED

Transport

Transport Information:NOT PROVIDED

Regulatory

SARA Title III Information:NOT PROVIDED

Federal Regulatory Information:NOT PROVIDED

State Regulatory Information:NOT PROVIDED