

10% BUFFERED FORMALIN

MSDS Number

CLLGW

National Stock Number

6550-01-363-1162

Product Name

10% BUFFERED FORMALIN

Manufacturer

VAL TECH DIAGNOSTICS INC

Product Identification

Product ID:10% BUFFERED FORMALIN

MSDS Date:06/30/1996

FSC:6550

NIIN:01-363-1162

Status Code:A

MSDS Number: CLLGW

Responsible Party

VAL TECH DIAGNOSTICS INC

806 FIFTH AVE

BRACKENRIDGE , PA 15014

US

Emergency Phone: 800-424-9300

Info Phone: 724-224-2440

Preparer: NOT PROVIDED

Cage: 01HD3

Contractor

VAL TECH DIAGNOSTICS INC

BRACKENRIDGE, PA 15014

US

724-224-2440

Cage: 01HD3

Ingredients

FORMALDEHYDE, FORMALIN

CAS: 50-00-0

RTECS: LP8925000

OSHA PELSEE 1910.1048

EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

METHYL ALCOHOL

CAS: 67-56-1

RTECS: PC1400000

OSHA PEL260 MG/M3;200 PPM

ACGIH TLV: 262 MG/M3;200 PPM

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

DISODIUM PHOSPHATE

CAS: 7558-79-4

RTECS: WC4500000

OSHA PEL15 MG/M3 (TDUST)

ACGIH TLV: 10 MG/M3 (TDUST)

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

MONOSODIUM PHOSPHATE

CAS: 7558-80-7

RTECS: WA1900000

OSHA PEL15 MG/M3 (TDUST)

ACGIH TLV: 10 MG/M3 (TDUST)

Hazards

LD50 LC50 Mixture:NOT PROVIDED

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

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

Health Hazards Acute and Chronic:STRONGLY IRRITATING TO SKIN, EYES, RESPIRATORY TRACT, AND MUCOUS MEMBRANES. POISONOUS. MAY CAUSE ALLERGIC REACTIONS. MAY CAUSE PERMANENT EYE DAMAGE. INHALTION (BREATHING): HARMFUL IF INHALED. SKIN CON TACT: HARMFUL IF ABSORBED THROUGH SKIN CAUSED GENERAL TISSUE DAMAGE. EYE CONTACT: CAUSES EYE BURNS. INGESTION (SWALLOWING): FATAL OR MAY CAUSE BLINDNESS.

Explanation of Carcinogenicity:LISTED AS A CARCINOGEN ON THE FOLLOWING: IARC, NTP, OSHA, ACGIH.

Effects of Overexposure:IRRITATION OF SKIN, EYES, RESPIRATORY TRACT, AND MUCOUS MEMBRANES FROM FUMES. INGESTION CAUSES SEVERE GASTROINTESTINAL SYMPTOMS.

Medical Cond Aggravated by Exposure:RESPIRATORY AILMENTS, SKIN CONDITIONS, EYE CONDITIONS.

First Aid

First Aid:EYE CONTACT: FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER (15 MINUTES), CALL A PHYSICIAN. SKIN CONTACT: FLUSH SKIN IMMEDIATELY WITH PLENTY OF WATER (15 MINUTES), REMOVE CONTAMINATED CLOTHING, CALL A PH YSICIAN. INHALTION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. INGESTION: DRINK 2 GLASSES OF WATER IMMEDIATELY AND INDUCE VOMITING, GIVE ACTIVATED CHARCOAL SLURRY. CALL PHYSICIAN.

Fire Fighting

Flash Point Method:PMCC

Flash Point:=71.1C, 160.F

Lower Limits:7.0%

Extinguishing Media:FOAM, WATER SPRAY, CARBON DIOXIDE, OR DRY CHEMICAL

Fire Fighting Procedures:USE SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE. WEAR PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:FORMS HAZARDOUS FUMES, CARBON MONOXIDE, CARBON DIOXIDE. EVACUATE AFFECTED AREA. COOL CONTAINER WITH WATER SPRAY TO ABSORB ESCAPING FUMES.

Accidental Release

Spill Release Procedures:SOAK UP SMALL SPILLS WITH EARTH, SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL AND REMOVE IN COVERED METAL CONTAINERS. DIKE LARGE SPILLS AND NEUTRALIZE WITH DILUTE (5%) SOLUTIONS OF AMMONIA, SODIUM SULFITE, OR SODIUM BISULFITE AND REMOVE. FLUSH AREA WITH PLENTY OF WATER. COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS ON REPORTING RELEASES.

Neutralizing Agent:DILUTE (5%) SOLUTIONS OF AMMONIA, SODIUM SULFITE, OR SODIUM BISULFITE

Handling

Handling and Storage Precautions:KEEP CONTAINER CLOSED. KEEP AWAY FROM HEAT AND FLAME. STORE IN A HEATED TANK OR WARM ROOM, ABOVE MINIMUM STORAGE TEMPERATURE FOR GRADE HANDLED.

Other Precautions:NOT PROVIDED

Exposure Controls

Respiratory Protection:FULL FACE, SELF CONTAINED BREATHING APPARATUS.

Ventilation:LOCAL EXHAUST, MUST COMPLY WITH REGULATIONS.

Protective Gloves:NEOPRENE, NITRILE, BUTYL. POLYVINYL

Eye Protection:FULL FACE SHIELD, SPLASH GOGGLES

Other Protective Equipment:COVERALLS WITH LONG SLEEVES MADE OF MATERIALS RESISTANT TO PRODUCT.

Work Hygienic Practices:REVIEW THE OSHA FORMALDEHYDE STANDARD (29CFR1910.1048) FOR WORKER TRAINING, WORKPLACE MONITORING AND MEDICAL SURVEILLANCE REQUIREMENTS.

Supplemental Safety and Health

ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K =

UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT

DETERMINED. N/E = NOT ESTABLISHED. CNS = CENTRAL NERVOUS SYSTEM. GI

= GASTROINTESTINAL. SCBA = SELF CONTAINED BREATHING APPARATUS.

Chemical Properties

HCC:V4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:94.3-100C (201-212F)

Melt/Freeze Pt:M.P/F.P Text:POLYMERIZES

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:23-26 MMHG@25C

Vapor Density:1.0

Spec Gravity:1.10

pH:NOT PROVIDED

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:>1 (BUAC=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR LIQUID WITH STRONG, PUNGENT ODOR.

Percent Volatiles by Volume:NOT PROVIDED

Corrosion Rate:NOT PROVIDED

Stability

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, CAUSTICS, STRONG ALKALIS, ISOCYANATES, ANHYDRIDES, OXIDES AND INORGANIC ACIDS. REACTS WITH NO₂, NITROMETHANE, PERCHLORIC ACID AND ANILINE OR PEROXYFORMIC ACID TO YIELD EXPLOSIVE COMPOUNDS

Stability Condition to Avoid:STORAGE AT HIGH TEMPERATURES

Hazardous Decomposition Products:NOT PROVIDED

Conditions to Avoid Polymerization:POLYMERIZES AND SEPARATES BELOW 0 C AND ABOVE 67 C.

Disposal

Waste Disposal Methods:CONSULT LOCAL, STATE AND FEDERAL AUTHORITIES FOR PROPER DISPOSAL METHODS.

Toxicology

Toxicological Information:FORMALDEHYDE: ORAL RAT LD50: 800 MG/KG. ORAL MOUSE LD50: 42 MG/KG. INHALATION, RATS: LC50 = 590 MG/KG.

INHALATION, MOUSE: LCL0 = 900 MG/KG. INHALATION, RATS: LCL0 = 250

MG/KG.

Other Information

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.

Ecology

Ecological:NOT PROVIDED

Transport

Transport Information:DOT LABELING: FORMALDEHYDE SOLUTION, 4 %.

Regulatory

SARA Title III Information:IN COMPLIANCE WITH SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR PART 372 THE FOLLOWING TOXIC CHEMICALS ARE PRESENT: FORMALDEHDYE.

Federal Regulatory Information:REPORT RQ (FORMALDEHYDE 100 LBS) TO NATIONAL RESPONSE CENTER AT 800-424-8802.

State Regulatory Information:NOT PROVIDED