

MATERIAL SAFETY DATA SHEET

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Vendor Update: 5/13/2002
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MSDS Number: ARK1001 ; ARK1051 ; K1T1500 ; K1T1710 ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: GLYCERINE
HMIS Ratings:
 Health: Minimal(0)
 Flammability: Minimal(0)
 Instability/Reactivity: Minimal(0)

NFPA Ratings:
 Health: Minimal(0)
 Flammability: Minimal(0)
 Instability/Reactivity: Minimal(0)

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
GLYCERINE (MIST)	56-81-5	99.5	10MG/M3	10MG/M3			
Notes	PEL: TOTAL DUST:5MG/M3, (RESPIRABLE FRACTION).TLV: TOTAL DUST CONTAINING NO ASBESTOS AND						
Other:	THRESHOLD LIMIT VALUE: 10MG/M3 TOTAL DUST 5MG/M3, RESPIRABLE FRACTION MIST - (OSHA 29 CFR 1910.Z-1-A), (ACGIH 1988-89).						

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: YES. CONTACT WITH MATERIAL MAY RESULT IN SLIGHT IRRITATION. PROLONGED OR REPEATED CONTACT MAY BE MORE IRRITATING.

Skin: YES. MAY CAUSE MILD IRRITATION TO SKIN. PROLONGED CONTACT CAN BE MORE SEVERE.

Ingestion: YES. MILDLY TOXIC BY INGESTION.

Inhalation: YES. MIST MAY IRRITATE NASAL PASSAGES.

Medical Conditions Aggravated by Exposure:

IV. FIRST AID MEASURES

Eyes: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN DURING THIS FLUSHING WITH WATER. CALL A PHYSICIAN IMMEDIATELY.

Skin: FLUSH AREA WITH WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING OR SHOES UNTIL CLEANED. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

Ingestion: IF CONSCIOUS, GIVE LARGE AMOUNTS OF WATER, AND THEN INDUCE VOMITING BY TOUCHING BACK OF THROAT WITH FINGERS. KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS. CALL

PHYSICIAN IMMEDIATELY. NEVER INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS VICTIM.

Inhalation: REMOVE VICTIM TO FRESH AIR IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

V. FIRE FIGHTING MEASURES

Flash Point: >390°F

Test Method: PMCC

Lower Flammability Limit: N/A

Upper Flammability Limit: N/A

Extinguishing Agents: DRY CHEMICAL, CARBON DIOXIDE, AND ALCOHOL.

Unusual Fire or Explosion Hazards: CAN REACT VIOLENTLY WITH STRONG OXIDIZERS.

Fire Fighting Procedures: EVACUATE AREA OF UNPROTECTED PERSONNEL. WEAR PROTECTIVE CLOTHING, INCLUDING A NIOSH – APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: ELIMINATE ALL SOURCES OF IGNITION. EVACUATE UNPROTECTED PERSONNEL FROM AREA. MAINTAIN ADEQUATE VENTILATION. USE PROPER SAFETY EQUIPMENT. CONTAIN SPILL, PLACE INTO DRUMS FOR PROPER DISPOSAL. FLUSH REMAINING AREA WITH WATER TO REMOVE TRACE RESIDUE AND DISPOSE OF PROPERTY. AVOID DIRECT DISCHARGE TO SEWERS AND SURFACE WATER. NOTIFY AUTHORITIES IF ENTRY OCCURS.

VII. HANDLING AND STORAGE

Other: STORE IN COOL, WELL-VENTILATED AREA AWAY FROM ALL SOURCES OF IGNITION AND OUT OF DIRECT SUNLIGHT. KEEP CONTAINERS TIGHTLY CLOSED. STORE AWAY FROM INCOMPATIBLE MATERIALS. DO NOT STORE IN UNLABELED OR MISLABELED CONTAINERS.
OTHER PRECAUTIONS: AVOID CONTACT WITH SKIN AND EYES. DO NOT SWALLOW. AVOID DUST OR MIST FORMATION. USE WITH ADEQUATE VENTILATION. AVOID BREATHING MISTS OR DUSTS. WASH THOROUGHLY AFTER HANDLING. DO NOT EAT, DRINK, OR SMOKE IN WORK AREA.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: CHEMICAL SAFETY GOGGLES, SAFETY GLASSES.

Skin: PROTECTIVE GLOVES: RUBBER (LATEX).

Respiratory: IF RECOMMENDED EXPOSURE LIMITS ARE EXCEEDED WEAR NIOSH-APPROVED RESPIRATOR FOR DUSTS AND MISTS. DO NOT EXCEED LIMITS ESTABLISHED BY THE RESPIRATOR MANUFACTURER.

Engineering: VENTILATION: MAINTAIN ADEQUATE VENTILATION. DO NOT USE IN CLOSED CONFINED SPACE. KEEP LEVELS BELOW RECOMMENDED EXPOSED LIMITS. TO DETERMINE EXPOSURE LEVELS, MONITORING SHOULD BE PERFORMED REGULARLY. AVOID MIST FORMATION.

Other: EYEWASH STATION, SAFETY SHOWER, RUBBER APRON, PROTECTIVE CLOTHING.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: CLEAR COLORLESS LIQUID
Boiling Point: >550°F
Freezing Point: 64.4
Solubility in Water: COMPLETE
Specific Gravity: 1.2–1.3
Vapor Pressure: <0.1
Vapor Density: NOT AVAILABLE
Volatile Content: NOT AVAILABLE

X. STABILITY AND REACTIVITY

Stability: STABLE

Hazardous Polymerization: MAY NOT OCCUR

Hazardous Decomposition Products: MAY REACT WITH STRONG OXIDIZING AGENTS TO CAUSE AN EXPLOSION.

Incompatible Products: STRONG OXIDIZING AGENTS, ACETIC ANHYDRIDE.

Conditions To Avoid: AVOID CONTACT WITH HEAT, SPARKS, ELECTRIC ARCS, OTHER HOT SURFACES AND OPEN FLAMES.

XI. TOXICOLOGICAL INFORMATION

XII. ECOLOGICAL INFORMATION

Ecotoxicity:

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS. DISPOSE OF AT APPROVED WASTE TREATMENT FACILITY. IF APPROVED, FLUSH TO SEWER WITH LARGE QUANTITIES OF WATER. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE EMPTY CONTAINER TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION.

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: N/A

D.O.T. Hazard Class: N/A

XV. REGULATORY INFORMATION

Supplemental State Compliance Information: CARCINOGEN CONTENT: %PPM, INGREDIENT, IARC NTP OSHANOTE: THIS DOES NOT CONTAIN GREATER THAN 0.1% OF THE KNOWN OR POTENTIAL CARCINOGENS LISTED IN NTP, IARC, OSHA. LD50 ORAL RAT: 12600MG/KG, LD50 SKIN RAT-SUBCUTANEOUS:100MG/KG, LC50 INHALATION:NO DATA.

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.