

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION: BIOMIST FORMULA D2

Chemical Family: Isopropyl alcohol-glycerol-water blend
Manufactured For: Biomist, Inc.
573 North Wolf Road
Wheeling, IL 60090

Emergency Information: CHEMTREC toll-free, 24-hour emergency telephone number, 800-424-9300 or Biomist 1 (847) 850-5530, 8-5 Central Standard Time.

Other Information: EPA Registration Number 73232-1-81599

Precautions: Flammable. Keep away from high heat, sparks, flame and all other ignition sources. May be harmful or fatal if swallowed. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid contact with eyes or mucous membranes where prolonged contact causes irritation.

Date Revised: March 1, 2005

2. HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Percent*	Exposure Limits In Air (ppm)		
			ACGIH TLV	OSHA PEL	Other (specify)
Isopropyl Alcohol	67-63-0	55-65%	400ppm	400ppm	500ppmSTEL
Other non-hazardous ingredients		35-45%	N/A	N/A	
TOTAL		100.00			

*Not a required category

3. PHYSICAL PROPERTIES

Vapor Density:	2.07	Physical State:	Clear liquid
Vapor Pressure:	33mm Hg @20°C	Color:	Clear
Specific Gravity:	0.8857	Odor	Alcohol odor
Melting Point:	NA	Miscibility:	100% in water
Boiling Point	180°F	Stability:	>5 years
Viscosity:	non-viscous	Corrosion:	non-corrosive

Does not stain skin, fabrics, plastics, metals, glass, formica.

How To Detect This Substance: Mild alcoholic odor

4. FIRE AND EXPLOSION

Flash point: 21.49°C (tag closed cup)

Auto-ignition temperature: >685 F. Flammable limits in air, volume %: lower 2; upper 12.

NFPA Rating: Health (1), Flammability (3), Physical Hazard/ Instability (0)

FIRE FIGHTING PROCEDURES: Use dry chemical, "alcohol foam", or carbon dioxide. Water may be ineffective, but water should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect persons attempting to stop a leak.

Water may be used to flush and dilute spills to nonflammable mixtures.

5. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure:

INHALATION: Exposure to over 400 ppm may cause headache, drowsiness, lassitude, loss of appetite and inability to concentrate. May cause irritation of the throat.

SWALLOWED: Can cause depression of central nervous system, nausea, vomiting, and diarrhea.

EYE CONTACT: Can cause eye irritation (stinging sensation) and tear production. Redness of conjunctiva may occur.

SKIN CONTACT: Causes no skin irritation if used as directed. Excessive, continuous exposure for a long period of time may cause defatting or drying of skin. Rate of absorption of active ingredients through skin or the effects thereof are unknown.

INGESTION: Can cause depression of central nervous system, nausea, vomiting, and diarrhea.

HEALTH EFFECTS FROM EXPOSURE

ACUTE/CHRONIC: No special acute or chronic effects or risks are expected from usage as directed on label. Brief contact with eyes, conjunctiva or other mucous membranes may cause temporary irritation. Ingestion will cause irritation of throat and esophagus and may cause mental or physical disabilities associated with alcohol intoxication.

FIRST AID, EMERGENCY PROCEDURES

EYE CONTACT: Immediately flush affected area with plenty of cool water for at least 15 minutes. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION: Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: If victim is conscious and able to swallow, have victim drink water or milk to dilute. Never give victim anything by mouth if victim is unconscious or having convulsions. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. Induce vomiting only if advised by physician or poison control center.

SUSPECTED CANCER AGENT? No. This product's ingredients are not found in Federal OSHA, NTP or IARC lists.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known when used as directed.

6. REACTIVITY DATA

STABILITY: Stable at room temperature for at least 5 years in a tightly closed container.

CONDITIONS AND MATERIALS TO AVOID: Contact with acetyl chloride and a wide range of strong oxidizing agents which may react violently.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide can form upon incomplete combustion.

HAZARDOUS POLYMERIZATION: None likely.

7. SPILL, LEAK AND DISPOSAL PROCEDURES

ENVIRONMENTAL PRECAUTIONS: Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

SPILL OR LEAK PROCEDURES: In case of large spills, wear appropriate respiratory protection. Eliminate possible ignition sources. Contain spilled material. Transfer to secure containers. Where necessary, collect spilled product using absorbent media. Dilute spill with water and directly flow to any available sanitary drain. In the event of an uncontrolled release of this product, the user should determine if the release is reportable under applicable laws and regulations.

WASTE DISPOSAL: All recovered product may be dispensed along with large volumes of water through normal sanitary sewage systems in gradual releases.

Note: Dispose of all wastes in accordance with federal, state and local regulations.

8. SPECIAL HANDLING INFORMATION

VENTILATION: Adequate ventilation should be available for all uses of this product

RESPIRATORY PROTECTION: Where exposure is likely to exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. For normal use of product as a surface disinfectant, no respirators are deemed necessary.

EYE PROTECTION: Contact of product with the eyes is not expected or anticipated in the normal use; however, if there is a possibility of splashing or other means of contact with eyes, chemical safety goggles meeting the specifications of ANSI Standard Z87. 1 should be worn.

GLOVES OR OTHER PROTECTIVE CLOTHING: No protective gloves or clothing are deemed necessary for normal application of product

STORAGE: Store product in cool place away from areas of high heat, flames or potential sparks. Empty containers may be discarded in trash after rinsing with water.

SHIPPING DESCRIPTION: ISOPROPYL ALCOHOL, 3,UN1219, PGII. For bottles one liter or less
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