MATERIAL SAFETY DATA SHEET

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MSDS No.: DD0043
Effective Date: January 4, 2007

SECTION I NAME
Product: Dimethyl Sulfoxide
Chemical Synonyms: DMSO; Methyl Sulfoxide
Formula: C2H6SO

SECTION II INGREDIENTS OF MIXTURES
Principal Component(s) % TLV Units
Methyl sulfoxide 100% None established.

SECTION III PHYSICAL DATA
Melting Point (°F) Boiling Point (°F) Flash Point (°F)
18.4°C (64°F) 189°F (372°F) 89°F (192°F)
Specific Gravity (H2O = 1) 1.10
Percent Volatile by Volume (%) 100%
Evaporation Rate (% by Volume (%)) 4.3
Solubility in Water Miscible in water.
Appearance & Odor Clear, colorless liquid; garlic-like odor. Hygroscopic.

SECTION IV FIRE AND EXPLOSION HAZARD DATA
Flammable Limits in Air
Flash Point (Method Used) 89°C (192°F) CC Lower 2.6% Upper 42 - 63%
Specific Gravity (H2O = 1) 1.10
Extinguisher Media Water spray, carbon dioxide, dry chemical or appropriate foam.

SECTION V HEALTH HAZARD DATA
Threshold Limited Value
None established by ACGIH 2001. Toxicity data: orl-rat LD50: 14,500 mg/Kg.

Effects of Overexposure
INGESTION: Causes irritation to gastrointestinal tract. May cause abdominal pain, dryness, chills and chest pain. Symptoms may include nausea, vomiting and diarrhea. INHALATION: Causes irritation to the respiratory tract. May cause allergic reaction in sensitive individuals. Symptoms may include coughing and shortness of breath. EYES: Causes irritation, redness and pain. May cause blurred vision. SKIN: Readily absorbed through skin. Causes irritation. May cause scaling. Symptoms include redness, itching and pain. Garlic-like taste and odor may develop on the breath and skin. Transient disturbances of color vision, photophobia, headache, diarrhea and dermatitis may result from skin applications. Target organs: Liver, kidneys.

Emergency and First Aid Procedures
INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA
Stability Unstable Reactivity
May Occur | Will Not Occur
None applicable.

SECTION VII SPILL OR LEAK PROCEDURES
Steps to be taken in case material is released or spilled
Use non-sparking tools and equipment. Cover with inert dry material, sweep up and place in covered containers. Ventilate area and wash spill site with soap and water after material pickup is complete. Do not flush to sewer.

SECTION VIII SPECIAL PROTECTION INFORMATION
Respiration Protection (Specify Type) None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator air-supplied or self-contained breathing apparatus.
Ventilation Local Exhaust Recommended Special No.
Mechanical (General) Recommended Other Adequate to maintain below exposure limit.
Other Protective Equipment Faceshield, lab coat and apron, eye wash station, safety shower, proper gloves, ventilation hood, fire extinguisher.

SECTION IX SPECIAL PRECAUTIONS
Precautions to be Taken in Handling & Storing
Keep container tightly closed when not in use.
Store in a cool, dry, well-ventilated area, away from sources of heat or ignition. Do not breathe vapor or spray. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Other Precautions
Fixed label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Avoid prolonged or repeated exposure. Use only with adequate ventilation. Remove and wash contaminated clothing.

Revision No. 2 Date 01/04/07 Approved James A. Bertsch
Chemical Safety Coordinator JAB
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