



MATERIAL SAFETY DATA SHEET

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I. PRODUCT IDENTIFICATION

PRODUCT NAME: KM2
CHEMICAL FAMILY: Organotin

II. HAZARDOUS INGREDIENTS

INGREDIENT NAME/ CAS NUMBER	%	EXPOSURE LIMITS OSHA PEL	ACGIH TLV
Dibutyltin Dilaurate (CAS# 77-58-7)	>95%	0.1000mg/m3 TWA 0.2000mg/m3 STEL	0.1000mg/m3 TWA 0.2000mg/m3 STEL

III. PHYSICAL / CHEMICAL CHARACTERISTICS

APPEARANCE (physical form, color, texture, etc.)	Straw yellow mobile liquid.
ODOR:	Fatty.
MELTING POINT:	No Data.
BOILING POINT:	>401.00F (>205.00 C).
VAPOR PRESSURE (mm Hg):	<5.00.
VAPOR DENSITY (Air = 1)	21.76.
SPECIFIC GRAVITY (H ₂ O = 1):	1.03.
EVAPORATION RATE (Butyl Acetate = 1):	No Data.
SOLUBILITY IN WATER:	Insoluble (<0.1%).

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used): >399.99 F (>204.44 C). (closed cup).

FLAMMABLE LIMITS:

LEL (Lower Explosion Limit)= Not established.
UEL (Upper Explosion Limit)= Not established.

EXTINGUISHING MEDIA: Ignition will give rise to a Class B fire. In case of large fire use: water spray, alcohol foam. In case of small fire use: carbon dioxide, dry chemical, dry sand, or limestone.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area. Fight fire from a safe distance. Fire-fighters should wear full emergency equipment with self-contained breathing apparatus and full protective clothing, including butyl rubber boots, gloves, and body suit. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

UNUSUAL FIRE & EXPLOSION HAZARDS: May generate toxic or irritating combustion products. Sudden reaction and fire may result if product is mixed with an oxidizing agent. May generate carbon monoxide gas. May generate toxic nitrogen oxide gases. May generate ammonia gas. Personnel in vicinity and downwind should be evacuated.

V. REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID (if unstable): Not applicable.

INCOMPATIBILITY (MATERIALS TO AVOID): Exposure to light and air alkalis. Oxidizing agents (i.e. perchlorates, nitrates, etc.). Sodium or Calcium Hypochlorite. Amines. Sunlight. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS (from burning, heating, or reaction with other materials): Carbon Monoxide in a fire. Carbon Dioxide in a fire. Irritating and toxic fumes at elevated temperatures. Tin oxide. Organic acid vapors.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (if polymerization may occur): Not Applicable.

VI. HEALTH HAZARD DATA

ROUTES OF ENTRY:

INHALATION? Yes.
SKIN CONTACT? Yes.
EYE CONTACT? Yes.
INGESTION? Yes.

ACUTE HEALTH HAZARDS:

INHALATION- Inhalation of vapors may cause irritation in the respiratory tract.

SKIN- Contact of undiluted product with skin causes severe irritation and pain and may cause burns, necrosis and permanent injury.

EYE- Contact with eyes causes severe irritation and pain. Prolonged contact may result in chemical burns and permanent damage.

INGESTION- No Data.

CHRONIC HEALTH HAZARDS:

Repeated and/or prolonged exposures may result in: liver disorders (such as jaundice or liver enlargement), kidney disorders (such as edema, or proteinuria), adverse respiratory effects (such as cough, tightness of chest or shortness of breath), adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion). Repeated and/or prolonged exposure to low concentrations of vapor may cause: sore throat, eye irritation which are transient.

CARCINOGENICITY:

NTP (National Toxicology Program)? No.
IARC (International Agency for Research on Cancer)? No.
OSHA REGULATED? No.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Asthma, chronic respiratory disease (e.g. bronchitis, emphysema), Eye disease, kidney disorders, liver disorders, skin disorders and allergies.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION- Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen (qualified medical personnel only). See medical attention immediately. Prevent aspiration of vomit. Turn victim's head to the side.

SKIN- Remove all contaminated clothing and shoes. Wash skin thoroughly with soap and water for at least 15 minutes. Wash clothing before wearing again. Clean shoes before wearing again. Seek medical advice.

EYE- Flush with large amounts of water for at least 15 minutes, using fingers to hold eyelids open to insure that the eyes are being irrigated. Seek medical advice.

INGESTION- If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

VII. PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

- o Stop the spill or leak.
- o Contain or dike the spilled product.
- o Evacuate spill area and keep nonessential or unprotected personnel away.
- o Equip clean-up personnel with necessary personal protective equipment (see Section VIII-Control Measures). Especially prevent skin and eye contact.
- o Prevent spilled material from entering soil, sewers, surface water, ground water, streams, or any other bodies of water.
- o Retain any contaminated water for removal and treatment.

- o Reduce vapor spreading with a water spray.
- o Shut off or remove all ignition sources.
- o Absorb small spills with inert material (e.g. dry sand, earth, chemical absorbent, etc.).
- o Transfer absorbed material and absorbent and place in an approved chemical waste container by suction.
- o Large spills may be taken up with pump or vacuum & then finished off with dry absorbent.
- o Clean up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing.
- o Report spill per regulatory requirements.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state, and local regulations.

EMPTY CONTAINER PRECAUTIONS: Empty containers retain product residue (liquid and/or vapor) and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. All containers should be disposed of in an environmentally safe manner and in accordance with applicable federal, state, and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: Keep away from: alkalis, oxidizers. Keep in cool, dry, ventilated storage and in closed containers. Protect from exposure to light. Minimize exposure to air. Exposure can cause material to degrade.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING (continued): Avoid contact with skin or eyes. Avoid breathing vapors. Handle in well ventilated work space. When handling, do not eat, drink, or smoke. Avoid using in any spray application without strict conformance to all applicable electrical codes and the OSHA limit for maximum allowable airborne concentrations.

OTHER PRECAUTIONS: Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g. OSHA).

VIII. CONTROL MEASURES (INCLUDING PERSONAL PROTECTION)

VENTILATION: Maintain air concentrations in work spaces in accord with standards outlined in Section II.

RESPIRATORY PROTECTION: Not required under normal conditions in a well-ventilated workplace. Under the following conditions a respirator may be required: when product vapor concentration exceeds the limits listed in Section II, during repair and cleaning of equipment, during transfer or discharge of the product, sampling, spray applications. Types of respirators that may be used include the following: Chemical Cartridge Respirator with face piece to protect against the organic vapor, Supplied air respirator with full face piece (NIOSH Approved), Self-contained breathing apparatus in pressure demand mode. In emergency conditions use a self-contained breathing apparatus in pressure demand mode.

SKIN PROTECTION: Impermeable gloves. Nitrile rubber gloves. Rubber gloves. Long sleeved clothing.

EYE PROTECTION: Splash-proof eye goggles. In emergency situations, use eye goggles with a full face shield.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety showers and eyewash stations should be readily available and in working condition.

WORK/HYGIENIC PRACTICES: Wash hands, forearms, and face thoroughly after handling product and before eating, smoking, using lavatory, and at the end of the day. Educate and train employees in safe use of product. Follow all label instructions.

IX. OTHER INFORMATION

OSHA HAZARD COMMUNICATION STATUS: This product is considered hazardous as defined under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

RCRA STATUS: Information not available.

US INVENTORY (TSCA): The ingredients of this product are listed on the TSCA inventory or are not required to be listed on the TSCA inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA), TITLE III:

Sections 301-303 – Emergency Planning - Extremely Hazardous Substances:

None.

Section 304 – Emergency Release Notification – Reportable Substances:

None.

Section 311/312 – Community Right-to-Know Reporting Requirements - Emergency Hazard Categories:

Immediate health hazard.

Section 313 – Toxic Chemical Notification & Release Inventory Reporting – Listed Substances:

None.

This information must be included in all MSDSs that are copied and distributed for this material.

HMIS RATINGS:

Health - 2 Flammability - 1 Reactivity - 0
(0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe)

X. APPROVALS

PREPARED BY: Nikki Clayton/Janet Balvin.

APPROVED BY: Steve Longacre.

REASON FOR REVISION: Updated format.

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