

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION						
NFPA Rating: Health-2; Flammability-1; Reactivity-1; Special-0 Manufactured For: K&K CHEMICAL CO. Address: 1303 Industrial Drive Royse City, TX 75189			HMIS Rating: Health-2; Flammability-1; Reactivity-1; Personal Protection-B DOT Hazard Classification: ORM-D Identity (trade name as used on label) KNOCK-OUT (A-140)			
Date Prepared: 9/13/2001 Prepared By: JAM Information Calls: (800)958-6921 EMERGENCY RESPONSE NUMBER: 1(800)424-9300 CHEMTREC			MSDS Number: 110 Revision: 9 NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA			
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
ISOBUTANE /PROPANE BLEND		75-28-5	No	800	800	d
		74-98-6	No	1000	1000	d
SODIUM HYDROXIDE		1310-73-2	No	2mg/M3	2mg/M3	d
POTASSIUM HYDROXIDE		1310-58-3	No	2mg/M3	2mg/M3	d
HEXYLENE GLYCOL		107-41-5	No	N/E	25	e
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: N/A			Specific Gravity: (H ₂ O=1): Concentrate Only = 1.060			
Vapor Pressure: PSIG @ 70 F (Aerosols): Max. 60			Vapor Pressure: (Non-Aerosols)(mm Hg and Temperature): N/A			
Vapor Density: (Air = 1): N/E			Evaporation Rate: (BuAc = 1): Slower			
Solubility in Water: Soluble			Water Reactive: No			
Appearance and Odor: Tan foamy gel with lemon fragrance.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) NON-FLAMMABLE		Auto Ignition Temperature: N/E		Flammability Limits in Air by % in Volume: % LEL: N/E % UEL: N/E		
FLASH POINT AND METHOD USED (non-aerosols): N/A			EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide, water.			
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.						
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130 F or the container may rupture.						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE			HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR			
Incompatibility (Mat. to avoid): Strong acids and oxidizers.			Conditions to Avoid: Open flame, welding arcs, heat.			
Hazardous Decomposition Products: CO, CO ₂ .						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS						
ACUTE EFFECTS						
Inhalation: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.						
Eye Contact: CAUSTIC: May cause burns.			Skin Contact: CAUSTIC: May cause burns.			
Ingestion: Possible chemical pneumonitis if aspirated into lungs. CAUSTIC: May cause burns.						
CHRONIC EFFECTS: Lab animals have experienced anemia, liver, kidney, lung, blood damage to Hexylene Glycol. (Effects due to excessive exposure to the raw materials of this mixture) May cause burns, dermatitis, respiratory illness, nystagmus and central nervous disorders.						
Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attention.						
Skin Contact: Wash with soap and water. If irritated, seek medical attention.						
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention.						
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water or milk. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH in positive pressure mode.						
Protective Gloves: Rubber gloves.			Eye Protection: Safety glasses recommended.			
Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.						
Other Protective Clothing & Equipment: None						
Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local, state or Federal regulations. Dilute with water, absorb with cloth or neutralize with dilute acid and flush to sewer.						
Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.						
Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130 F.						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Do not use on aluminum. Avoid breathing vapors.						

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [t] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only