

PPS PACKAGING COMPANY

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SECTION 1: PRODUCT AND COMPA	NY IDENTIFICATION		
PRODUCT NAME:	MEK		
APPLICATION(S):	Adhesive used to bond various cooler products together within the evaporative cooler unit.		
CHEMICAL NAME:	Methyl Ethyl Ketone		
PPS PART NUMBER(S):	81592, 82002, 82202, 82122, 82132, 82142, 82152, 82162		
MANUFACTURED FOR PPS PACKAGING BY:	IPS Corporation 17109 South Main Street Carson, CA 90248-3127 P.O. Box 379, Gardena, CA 90247-0379 Phone - (310) 989-3300		
EMERGENCY PHONE:	1-800-451-8346		
SECTION 2: HAZARDS IDENTIFICATI	ON		
EMERGENCY OVERVIEW:	Danger! Extremely flammable liquid and vapor; vapor may cause a flash fire. Harmful or fatal if swallowed, inhaled or absorbed through skin. Affects central nervous system and causes irritation to the skin, eyes and respiratory tract.		
ROUTES OF ENTRY:	May enter body through skin, mouth or eyes		
POTENTIAL HEALTH EFFECTS			
EYES:	Vapors are irritating to the eyes; splashes can produce painful irritation and eye damage.		
SKIN:	Causes irritation to skin; symptons include redness, itching and pain. May be absorbed through the skin with possible systemic effects.		
INGESTION:	May produce abdominal pain and nausea. Aspiration into lungs can produce severe lung damage and is a medical emergency; other symptoms expected to parallel inhalation.		
INHALATION:	Causes irritation to the nose and throat. Concentrations above the TLV may cause headache, dizziness, nausea, shortness of breath, and vomiting; higher concentrations may cause central nervous sytem depression and unconsciousness.		
CHRONIC HEALTH HAZARDS:	Prolonged skin contact may defeat the skin and produce dermatitis; chronic exposure may cause central nervous system effects.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:	.Y Persons with pre-existing skin disorders, eye problems or impaired respiratory functi may be more susceptible to the effects of the substance.		
CARCINOGENICITY:	None		
TERATOGENICITY:	Not determined		
MUTAGENICITY:	Not determined		

SECTION 3: COMPOSITION/INFORM	IATION ON ING	REDIENTS				
INGREDIENT: Methyl Ethyl Ketone	<u>CAS NO.</u> 78-93-3	<u>% WT</u> 54-71	ACGIH 200 ppm	ACGIH STEL 300 ppm	ACGIH PEL 200 ppm	<u>OSHA STEL</u> -
SECTION 4: FIRST AID MEASURES						
INHALATION:	Remove to fresh air; if not breathing, give artificial respiration. If breathing is difficult, give oxygen; get medical attention immediately.					
INGESTION:	Aspiration hazard; if swallowed, vomiting may occur spontaneously, but do not induce. Give 1 or 2 glasses of water or milk in order to dilute ingested chemical. If vomiting occurs, keep head below hips to prevent aspiration to the lungs; never give anything by mouth to an unconscious person. Call a physician immediately.					
SKIN:	Immediately wash skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes; get medical attention immediately. Wash clothing before reuse; thoroughly clean shoes before reuse.					
EYES:	Immediately f lower eyelids	lush eyes w occasionall	vith plenty o y; get medic	f water for at le al attention imr	ast 15 minutes, li nediately.	fting upper and
SECTION 5: FIRE FIGHTING MEASUR	ES					
NFPA HAZARD CLASSIFICATION:	Health: 3		Flamm	nability: 3	Re	eactivity: 0
EXTINGUISHING MEDIA:	To extinguish, used to keep f protect persor	use carbor ire exposed nnel attem	n dioxide (CC d containers pting to stop	D ₂), foam or dry cool, dilute spil leak, and dispe	chemicals. Water I to nonflammabl erse vapors.	r spray must be e mixtures,
SPECIAL FIRE FIGHTING PROCEDURES:	In the event o breathing app positive press flame, hot sur	f a fire, wea aratus with ure mode. faces, and a	ar full proteen a full-face p This highly fl all sources o	ctive clothing ar piece operated ammable liquid f heat and ignit	nd NIOSH-approve in the pressure de I must be kept fro ion.	ed self-contained emand or other om sparks, open
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Above flash point, vapor-air mixtures are explosive with flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated; sensitive to static charge.					
SECTION 5 NOTES:	MEK is extrem	ely flamma	able			
SECTION 6: ACCIDENTAL RELEASE MEASURES						
ACCIDENTAL RELEASE MEASURES:	Ventilate area the area. Wea this document personnel fror tools and equi material (e.g., not use combu has not ignited attempting to required repo reportable qua center is (800)	where lea r appropria t. Isolate th n entering. pment. Co vermiculite ustible mat d, use wate stop leak a rting for sp antities. Th 0 424-8802.	k or spill has ate personal le hazardous . Contain and llect liquid ir e, dry sand, erials, such er spray to di and to flush e toll free no	taken place; re protective equi area and keep d recover liquid an appropriate earth) and place as saw dust; do sperse the vapo spill away from ases to soil as w umber for the U	move all sources pment as specifie unnecessary and when possible; u e container or abs e in a chemical wa not flush to sewe ors in order to pro exposures. Use re ell as water and a l.S. Coast Guard n	of ignition from ed in Section 8 of unprotected se non-sparking forb with an inert aste container. Do er! If a leak or spill otect personnel egulation (CERCLA) ir in excess of national response

SECTION 7: HANDLING AND STOR	
HANDLING AND STORAGE:	Protect product against physical damage. Store in a cool, dry well-ventilated location away from any area where the fire hazard may be acute; outside or detached storage is preferred, separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be no smoking areas; use non-sparking tools and equipment, including explosion-proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors and liquids); observe all warnings and precautions listed for the product.
SECTION 8: EXPOSURE CONTROLS	/PERSONAL PROTECTION
VENTILATION:	A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH domcument, "Industrial Ventilation, a Manual of Recommended Practices" (the most recent edition) for details. Use explosion-proof equipment.
RESPIRATORY PROTECTION:	If the exposure limit is exceeded and engineering controls are not feasible, a full-face piece respirator with an organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier (whichever is lowest). For emergencies or instances where the exposure levels are not known, use a full-face piece positive- pressure, air-supplied respirator. WARNING: air purifying respirators do not protect workers in oxygen-deficient
EYE PROTECTION:	Use chemical safety goggles and/or full-face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.
SKIN PROTECTION:	Wear impervious protective clothing, including boots, gloves, lab coat, apron, or coveralls, as appropriate, to prevent skin contact. Butyl rubber is a suitable material for personal protective equipment.
WORK HYGIENIC PRACTICES:	Avoid prolonged or repeated contact; do not breathe vapors. Wash contaminated clothing prior to reuse.
SECTION 9: PHYSICAL AND CHEMI	CAL PROPERTIES
APPEARANCE/PHYSICAL STATE:	Liquid
COLOR:	Clear/Colorless

ODOR:	Ketone
ODOR THRESHOLD:	5.4 ppm
pH:	Not applicable
MELTING/FREEZING POINT:	Melting: 86° C (-187° F)
BOILING POINT AND RANGE:	80° C (176° F)
FLASH POINT:	-9° C (16° F)
EVAPORATION RATE:	> 1.0
FLAMMABILITY:	Category 2
UPPER/LOWER FLAMMABILITY OR EXPOSURE LIMITS:	LEL: 1.4% UEL: 11.4%
VAPOR PRESSURE:	78 mmHg at 20° C (68° F)

VAPOR DENSITY:	> 2
RELATIVE DENSITY:	Not determined
SOLUBILITY:	29 G in 100 G of water
AUTO-IGNITION TEMPERATURE:	515° C (959° F)
DECOMPOSITION TEMPERATURE:	Not applicable

CECTION 10. CTADILITY AND DEACT	
REACTIVITY:	Not determined
STABILITY:	Stable under ordinary conditions of use and storage
HAZARDOUS REACTIONS:	Not determined
CONDITIONS TO AVOID:	Heat, flames, ignition sources, and incompatible materials
INCOMPATIBLE MATERIALS:	Oxidizing materials, caustics, amines, ammonia, strong bases, chloroform, chlorosulfonic acid, oleum, potassium-t-butoxide, heat or flame, hydrogen peroxide, and nitric acid. MEK can attack many plastics, resins and rubber.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon Dioxide (CO₂) and Carbon Monoxide (CO) may form when heated to decomposition.
SECTION 11: TOXICOLOGICAL INFO	RMATION
TOXICOLOGICAL INFORMATION:	LD50 - Oral: 2737 mg/kg (Rat), Dermal: 6480 mg/kg (Rabbit) LC50 - Inhalation 8 hrs.: 23500 mg/m³ (Rat)
SECTION 11 NOTES:	Has shown teratogenic effects in laboratory animals
SECTION 12: ECOLOGICAL INFORM	ATION
ECOLOGICAL INFORMATION:	When released into soil, this material may leach into groundwater or it may evaporate to a moderate extent. When released into water, MEK may biodegrade or evaporate to a moderate extent. When released into water, this material is expected to have a half-life between 10 and 30 days. This material is not expected to significantly.
	bioaccumulate. When released into the air, this material is expected to significantly degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.
BIOACCUMULATION:	bioaccumulate. When released into the air, this material is expected to significantly degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days. Minimal to none
BIOACCUMULATION: BIODEGRADABILITY:	bioaccumulate. When released into the air, this material is expected to significantly degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days. Minimal to none Biodegradable
BIOACCUMULATION: BIODEGRADABILITY: MOBILITY:	bioaccumulate. When released into the air, this material is expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days. Minimal to none Biodegradable In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 490 g/l.
BIOACCUMULATION: BIODEGRADABILITY: MOBILITY: <u>SECTION 13: DISPOSAL CONSIDERA</u>	bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days. Minimal to none Biodegradable In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 490 g/l.

	Federal, State and Local requirements.	
SECTION 14: REGULATORY IN	FORMATION	
PRECAUTIONARY LABEL	Highly Flammable, Irritant	
INFORMATION:		

management options. Dispose of container and unused contents in accordance with

SYMBOLS:	F, Xi
RISK PHRASES:	R11: Highyl flammable R20: Harmful by inhalation R36/37: Irritating to eyes and respiratory system R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness
SAFETY PHRASES:	 S9: Keep container in a well-ventilated place S16: Keep away from sources of ignition - No smoking S25: Avoid contact with eyes S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33: Take precautionary measures against static discharges S46: If swallowed, seek medical advise immediately and show this container or label
INGREDIENT LISTINGS:	USA TSCA, Europ EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
SECTION 15: OTHER INFORMATION	
PREPARATION INFORMATION:	The information contained herein is based on the data available to PPS Packaging and is believed to be accurate; however, PPS Packaging makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof.
DATE PREPARED:	12/13/2013
DATE REVISED:	1/31/2014
DISCLAIMER:	The conditions or methods of handling, storing, using, and disposing of this product are beyond PPS Packaging's control and may be beyond their knowledge. For this reason, they do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storing, using, or disposing of this product.