



KQ 105A  
NOT FOR EXPORT TO EU

Date of Preparation: 11/13

**SDS No. 30192**  
Revision: 0

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**Product Name:** KQ 105A

**Synonyms:** Alkyl pyridine quaternary salts in methanol

**CAS Number:** mixture

**Chemical Formula:** mixture

**General Use:** various

**Manufacturer:** KMCO, 16503 Ramsey Road, Crosby, Texas 77532

**24-HOUR EMERGENCY NUMBER - CHEMTREC: 1-800-424-9300**

**KMCO PHONE:** (281) 328-3501

**FAX:** (281) 328-9528

**Restrictions on Use:** For Industrial Use Only

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**SECTION 2: HAZARD(S) IDENTIFICATION**

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**Hazard Classification:**

**OSHA Hazards:** Flammable liquid, Target organ effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption

**Target Organs:** Eyes, Kidney, Liver, Heart, Central nervous system

**GHS Classification:**

Flammable liquid (Category 2)

Acute toxicity, oral (Category 3)

Acute toxicity, inhalation (Category 3)

Acute toxicity, dermal (Category 3)

Specific target organ toxicity – single exposure (Category 1)

**DANGER**



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**Hazard Statements:**

H225	Highly flammable liquid and vapor
H301 + H311 + H331	Toxic if swallowed, in contact with skin, or if inhaled
H370	Causes damage to organs

**Precautionary Statements:**

P210	Keep away from heat/sparks/open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground / bond container and receiving equipment.
P241	Use explosion proof electrical / ventilating / lighting / equipment.
P242	Use only non-sparking tools.
P243	Take precautions against static discharge.
P260	Do not breathe fumes/gas/mist/vapors/spray.
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / protective clothing. Rinse skin with shower.
P370 + 378	In case of fire use dry chemical, foam or carbon dioxide for extinction.
P303 + P302 + P352	IF ON SKIN: Remove / Take off immediately all contaminated clothing. Wash with plenty of soap and water.
P363	Wash contaminated clothing before reuse.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. Rinse mouth.
P304 + P340	IF INHALED: Remove victim to fresh air and keep in a position comfortable for breathing.
P307 + P311	If exposed: Call a POISON CENTER or doctor / physician.



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75% of the mixture consists of ingredient(s) of unknown acute toxicity.

**HMIS Classification**

Health hazard: 2  
Chronic Health Hazard: \*  
Flammability: 3  
Physical hazards: 0

**NFPA Rating**

Health hazard: 2  
Fire: 4  
Reactivity: 0

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**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

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<u>INGREDIENT Name:</u>	<u>CAS NUMBER</u>	<u>%wt. or %v</u>
Alkyl Pyridine Quaternary Salt	68909-18-2	75
Methanol	67 -56 -1	25

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**SECTION 4: FIRST AID MEASURES**

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**EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Consult a doctor / physician.

**SKIN:** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a doctor / physician.

**INGESTION:** DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor / physician.

**INHALATION:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.



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**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Treatment should be directed at the control of symptoms and the clinical condition of the patient.

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### SECTION 5: FIRE-FIGHTING MEASURES

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**SUITABLE EXTINGUISHING MEDIA:** Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak, and disperse vapors.

**UNSUITABLE EXTINGUISHING MEDIA:** Direct water stream.

**SPECIAL FIRE FIGHTING PROCEDURES:** Evacuate area. Do not use direct water stream to extinguish fires. Product may travel with water and reignite. Vapors can flow along surfaces to distant ignition source and flash back. Do not release runoff from fire control methods to sewers or waterways.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Above flash point, vapor-air mixtures are explosive within flammable limits. Contact with strong oxidizers may cause fire. Containers may explode when involved in a fire. Sensitive to static discharge.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, carbon dioxide, formaldehyde and unidentified organic compounds.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS:** Wear full protective clothing and NIOSH – approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive breathing mode.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**PERSONAL PRECAUTIONS:** Use appropriate personal protective equipment. Avoid breathing vapors, mist or gas. Avoid contact with spilled material. Insure adequate ventilation. Remove all sources of ignition. Use non-sparking tools and equipment.

**PROTECTIVE CLOTHING:** Standard work uniform. Impervious gloves. Safety glasses. Personnel should increase PPE level as deemed appropriate in any given situation.



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**EMERGENCY PROCEDURES:**

**SMALL SPILLS:** Contain and recover liquid when possible. Collect liquid in appropriate container or absorb with an inert material (such as vermiculite or dry sand) and place in chemical waste container. Do not use combustible materials such as sawdust for the cleanup.

**LARGE SPILLS:**

**Containment:** Shut off source of leak if safe to do so. Dike far ahead of liquid spill for later disposal. Do not allow material to enter sewers or waterways.

**Cleanup:** Contain and recover liquid when possible. Collect liquid in appropriate container. Absorb residue with an inert material (such as vermiculite or dry sand) and place in chemical waste container. Do not use combustible materials such as sawdust for the cleanup.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING PRECAUTIONS:** Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground / Bond container and receiving equipment. Use only non-sparking tools, including ventilation. Take precautionary measures against static discharge.

**STORAGE REQUIREMENTS:** Store in a cool, well-ventilated place away from incompatibles.

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**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:** Controls should be such that adequate ventilation is provided.

**VENTILATION:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work place by controlling it at its source.

**RESPIRATORY PROTECTION:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA / NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (e.g. cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least:



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medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**EYE PROTECTION:** Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133) Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with, contact lenses.

**SKIN PROTECTION:** Wear chemically protective gloves, boots, aprons and gauntlets to prevent prolonged or repeated skin contact.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Make emergency eyewash stations, safety/quick drench showers and washing facilities available in work areas.

**WORK HYGIENIC PRACTICES:** Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Separate contaminate work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. Discard belts and shoes that cannot be cleaned.

## EXPOSURE GUIDELINES:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		USA WEEL OR IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Alkyl pyridine quaternary salt	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.
Methanol	200 ppm	250 ppm	200 ppm	250 ppm	200 ppm	250 ppm	

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**PHYSICAL STATE:** liquid



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**APPEARANCE AND COLOR:** dark brown and viscous

**ODOR:** pyridine-type

**FLASH POINT:** 77° F

**UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:**

LEL: 6.0% v/v (methanol)

UEL: 36% v/v (methanol)

**AUTO IGNITION TEMPERATURE:** 867° F (methanol)

**DECOMPOSITION TEMPERATURE:** not determined

**VAPOR PRESSURE:** 97 mm Hg at 68° F (methanol)

**ODOR THRESHOLD:** not determined

**VAPOR DENSITY (air = 1):** >1

**pH:** 5

**RELATIVE DENSITY:** 8.56 lb/gal

**SPECIFIC GRAVITY (H<sub>2</sub>O =1 AT 4 C):** 1.028

**MELTING POINT / FREEZING POINT:** not determined

**WATER SOLUBILITY:** dispersible

**OTHER SOLUBILITIES:** not available

**INITIAL BOILING POINT AND BOILING RANGE:** not determined

**EVAPORATION RATE (BuAc = 1):** not determined

**VISCOSITY:** not determined

**REFRACTIVE INDEX:** not determined

**FORMULA WEIGHT:** mixture

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## SECTION 10: STABILITY AND REACTIVITY

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**REACTIVITY:** none under normal handling

**STABILITY:** stable at room temperature under normal storage and handling conditions

**CONDITIONS TO AVOID (STABILITY):** heat, sparks, open flame and oxidizing conditions.

**INCOMPATIBILITY (MATERIAL TO AVOID):** oxidizing agents

**HAZARDOUS DECOMPOSITION BY-PRODUCTS:** carbon monoxide, carbon dioxide, formaldehyde and unidentified organic compounds.

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization will not occur.



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**CONDITIONS TO AVOID (POLYMERIZATION):** Hazardous polymerization will not occur.

**HAZARDOUS POLYMERICATION BY-PRODUCTS:** Hazardous polymerization will not occur.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** methanol may be fatal or cause blindness if swallowed. Headache, dizziness, drowsiness, metabolic acidosis, coma, seizures. Symptoms may be delayed. Damage of the liver and kidney.

**ACUTE EFFECTS:**

**EYE CONTACT:** causes eye irritation.

**SKIN CONTACT:** toxic if absorbed through skin. Causes skin irritation.

**INHALATION:** toxic if inhaled. Causes respiratory tract irritation.

**INGESTION:** toxic if swallowed

**TARGET ORGAN EFFECTS:** causes damage to organs.

**CHRONIC EFFECTS:** this material is not classified as specific target organ toxicant, repeated exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** none anticipated.

**ACUTE TOXICITY VALUES**

**Alkyl Pyridine Quaternary Salt**

**ORAL LD50 (state animal):** data not available

**DERMAL LD50 (state animal):** data not available

**INHALATION LC50 (state animal):** data not available

**Methanol**

**ORAL LD50 (rat):** 1,187 mg/kg

**DERMAL LD50 (rabbit):** 17,000 mg/kg

**INHALATION LC50 (rat):** 128.2 mg/kg 4 h





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**LDLO Oral(human):** 143 mg/kg

**LISTED CARCINOGEN:**

**NATIONAL TOXICOLOGY PROGRAM REPORT ON CARCINOGENS:** no component of this product present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by NTP.

**IARC LISTED AS POTENTIAL CARCINOGEN:** no component of this product present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by IARC.

**OSHA LISTED AS POTENTIAL CARCINOGEN:** no component of this product present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**DATA FROM TOXICITY TESTS ON AQUATIC AND/OR TERRESTRIAL ORGANISMS:**

**Alkyl Pyridine Quaternary Salt**

Fish: data not available

Daphnia: data not available

**Methanol**

Fish: LC50 – Lepomis macrochirus (bluegill) – 15,400 mg/l – 96 h

Daphnia: EC50 – Daphnia magna (water flea) - >10,000 mg/l – 48 h

**ENVIRONMENTAL FATE:** data not available

**BIOACCUMULATION POTENTIAL:** data not available

**POTENTIAL TO MOVE FROM SOIL TO GROUNDWATER:** data not available

**OTHER ADVERSE ENVIRONMENTAL EFFECTS:** data not available

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**CONTAINERS TO USE:** no specific recommendations.

**RECOMMENDED DISPOSAL METHODS:** Whatever cannot be saved for recovery or recycling should be disposed of in an approved waste facility in accordance with Federal, State/Provincial and Local requirements.

**PHYSICAL AND CHEMICAL PROPERTIES THAT MAY AFFECT DISPOSAL ACTIVITIES:** highly flammable.

**WHENEVER POSSIBLE, MATERIAL SHOULD NOT BE ALLOWED TO ENTER SEWAGE DISPOSAL SYSTEMS.**

**SPECIAL PRECAUTIONS FOR LANDFILL OR INCINERATION ACTIVITIES:** extra care should be used when lighting as this material is highly flammable.

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION (49 CFR 172.101)

**PROPER SHIPPING NAME:** Flammable liquid, n.o.s. (contains methanol)

**SHIPPING SYMBOLS:** n/a

**HAZARD CLASS:** 3

**UN/NA NUMBER:** UN1993

**PACKING GROUP:** III

**LABELS REQUIRED:** 3, Flammable liquid

**SPECIAL PROVISIONS (172.102):** none

#### PACKAGING AUTHORIZATIONS

A) EXCEPTIONS: 173.150

B) NON-BULK PACKAGING: 173.202

C) BULK PACKAGING: 173.242

#### QUANTITY LIMITATIONS:

A) PASSENGER, AIRCRAFT OR RAILCAR: 60L

B) CARGO AIRCRAFT ONLY: 220L

#### VESSEL STOWAGE REQUIREMENTS

A) VESSEL STOWAGE: A



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**B) OTHER:** none

**IATA**

**UN NUMBER:** 1993

**PROPER SHIPPING NAME:** Flammable liquid, n.o.s.(contains methanol)

**CLASS:** 3

**PACKING GROUP:** I, II, III

**SPECIAL PROVISIONS:**

**PACKING GROUP I:** A3

**PACKING GROUP II:** none

**PACKING GROUP III:** none

**EXCEPTED QUANTITY**

**MAXIMUM PER INNER PACKAGE:**

**PACKING GROUP I:** 30 mL

**PACKING GROUP II:** 30 mL

**PACKING GROUP III:** 30 mL

**MAXIMUM PER PACKAGE:**

**PACKING GROUP I:** 0.3 L

**PACKING GROUP II:** 0.5 L

**PACKING GROUP III:** 1.0 L

**LIMITED QUANTITY**

**PACKAGING INSTRUCTION:**

**PACKING GROUP I:** Forbidden

**PACKING GROUP II:** Y341

**PACKING GROUP III:** Y344

**MAXIMUM PER PACKAGE:**

**PACKING GROUP I:** Forbidden

**PACKING GROUP II:** 1 L

**PACKING GROUP III:** 10 L

**PASSENGER AIRCRAFT**

**PACKAGING INSTRUCTION:**

**PACKING GROUP I:** 351

**PACKING GROUP II:** 353

**PACKING GROUP III:** 355

**MAXIMUM PER PACKAGE:**

**PACKING GROUP I:** 1 L



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**PACKING GROUP II: 5L**  
**PACKING GROUP III: 60L**

**CARGO AIRCRAFT:**

**PACKAGING INSTRUCTION:**

**PACKING GROUP I: 361**  
**PACKING GROUP II: 364**  
**PACKING GROUP III: 366**

**MAXIMUM PER PACKAGE:**

**PACKING GROUP I: 30 L**  
**PACKING GROUP II: 60 L**  
**PACKING GROUP III: 220 L**

**ERG CODE: 3L**

**IMDG**

**UN NUMBER: UN1993**

**PROPER SHIPPING NAME: Flammable liquid, n.o.s. (contains methanol)**

**CLASS OR DIVISION: 3**

**SUBSIDIARY RISK(S): ---**

**PACKING GROUP: I, II, III**

**SPECIAL PROVISIONS:**

**PACKING GROUP I: 274**  
**PACKING GROUP II: 274**  
**PACKING GROUP III: 223, 274, 955**

**LIMITED AND EXCEPTED QUANTITY PROVISIONS**

**LIMITED QUANTITIES:**

**PACKING GROUP I: 0**  
**PACKING GROUP II: 1 L**  
**PACKING GROUP III: 5 L**

**EXCEPTED QUANTITIES:**

**PACKING GROUP I: E3**  
**PACKING GROUP II: E2**  
**PACKING GROUP III: E1**

**PACKING**

**INSTRUCTIONS:**



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**PACKING GROUP I:** P001  
**PACKING GROUP II:** P001  
**PACKING GROUP III:** P001, LP01

**PROVISIONS:**

**PACKING GROUP I:** ---  
**PACKING GROUP II:** ---  
**PACKING GROUP III:** ---

**IBC**

**INSTRUCTIONS:**

**PACKING GROUP I:** ---  
**PACKING GROUP II:** IBC02  
**PACKING GROUP III:** IBC03

**PROVISIONS:**

**PACKING GROUP I:** ---  
**PACKING GROUP II:** ---  
**PACKING GROUP III:** ---

**PORTABLE TANKS AND BULK CONTAINERS**

**TANK INSTRUCTIONS:**

**PACKING GROUP I:** T11  
**PACKING GROUP II:** T7  
**PACKING GROUP III:** T4

**PROVISIONS:**

**PACKING GROUP I:** TP1, TP27  
**PACKING GROUP II:** TP1, TP8, TP28  
**PACKING GROUP III:** TP1, TP29

**EmS:** F-E, S-E

**STOWAGE AND SEGREGATION:**

**PACKING GROUP I:** Category E  
**PACKING GROUP II:** Category B  
**PACKING GROUP III:** Category A

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS**



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**TSCA (TOXIC SUBSTANCE CONTROL ACT):** all components of this mixture are listed on the TSCA inventory.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** Spills of this product over the RQ (Reportable Quantity) must be reported to the National Response Center. The RQ for Methanol, CAS number 67-56-1, is 5,000 pounds. Report spills as required under Federal, state and local regulations.

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** no chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**311/312 HAZARD CATEGORIES:**

Immediate Hazard: **yes** / no

Delayed Hazard: **yes** / no

Fire Hazard: **yes** / no

Pressure Hazard: **yes** / no

Reactivity Hazard: **yes** / no

**313 REPORTABLE INGREDIENTS:** Methanol, CAS number 67-56-1, is subject to the reporting requirements of EPCRA Section 313.

**CLEAN WATER ACT (CWA):** none of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**CLEAN AIR ACT (CAA):** this product contains Methanol, CAS number 67-56-1 which is listed as a Hazardous Air Pollutant . This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**STATE REGULATIONS:**

**California:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**Massachusetts:**

Methanol, CAS Number 67-56-1

**INTERNATIONAL REGULATIONS:**

**Persistent Organic Pollutants (United Nations):** not listed

**Initial List of Prior Informed Consent Chemicals (United Nations):** not listed



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**Ozone Depleting Substances (Montreal Protocol):** not listed

**Greenhouse Gases (Intergovernmental Panel on Climate Change):** not listed

**AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES:** all components of this mixture are listed

**CANADA: DOMESTIC SUBSTANCES LIST:** all components of this mixture are listed.

**CANADA WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS):**

B2 – Flammable and combustible material – Flammable liquid

D1B – Poisonous and infectious material – Immediate and serious effects – Toxic

D2B - Poisonous and infectious material – Other effects – Very toxic

D2B - Poisonous and infectious material – Other effects - Toxic

**CANADIAN ENVIRONMENTAL PROTECTION AGENCY TOXICS LIST:** none of the components of this mixture are listed.

**EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES:** all components of this mixture are listed.

**NEW ZEALAND:** all components of this mixture are listed.

**PHILLIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES:** all components of this mixture are listed.

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## **SECTION 16: OTHER INFORMATION**

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Prepared by: KMCO

**Disclaimer: This product is FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.**

**KMCO believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. No warranty of fitness for any particular purpose, warranty of merchantability, or any other warranty expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specific product designated and may not be valid where such product is used in**



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**combination with any other materials or in any process. Further, since the conditions and methods of use of the product and of the information referred to herein are beyond the control of KMCO, KMCO expressly disclaims any and all liability as to any results obtained or arising from any of the product or reliance on such information.**

**For additional product information, please contact the KMCO Sales Office at (281) 272-4100.**