



KB 1410
NOT FOR EXPORT TO EU

Date of Preparation: 10/13

SDS No. 30170
Revision: 0

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: KB 1410

Synonyms: Alkoxylated Polyamines

CAS Number: 68815-65-6

Chemical Formula: Polyamines Polyethers

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

SECTION 2: HAZARD(S) IDENTIFICATION

Hazard Classification:

OSHA Hazards: Unknown

Target Organs: Unknown

GHS Classification:

Skin Corrosion (Category 1)

Serious Eye Damage (Category1)

Signal Word: DANGER

PICTOGRAMS





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Hazard Statements:

H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage

Precautionary Statements:

P260 Do not breathe dusts or mists.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301 + P361 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or in hair): Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.
P363 Wash contaminated clothing before reuse.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor / physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

100% of the mixture consists of ingredient(s) of unknown acute toxicity.

HMIS Classification

Health hazard: 1
Chronic Health Hazard
Flammability 1
Physical hazards 0

NFPA Rating

Health hazard: 1
Fire: 1
Reactivity 0

Description of Any Other Hazards Not Otherwise Classified: None known.



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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT Name:</u>	<u>CAS NUMBER</u>	<u>%wt. or %v</u>
Polyamine Polyethers	68815-65-6	99+

SECTION 4: FIRST AID MEASURES

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SKIN: Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.

INGESTION: Rinse mouth. Do not induce vomiting.

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

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

SECTION 5: FIRE-FIGHTING MEASURES

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 may be explosive. Contact with strong oxidizers may cause fire. Containers may explode when involved in a fire.



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HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

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.

SECTION 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS: Protect against physical damage. Handle material in a well-ventilated area to minimize potential exposure hazard.

STORAGE REQUIREMENTS: Store out of direct sunlight in a cool, well-ventilated area. Separate from incompatibles.



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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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: 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		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	



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Polyamine Polyether	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: liquid
APPEARANCE AND COLOR: amber
ODOR: ether type odor
FLASH POINT: > 300° F
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: not available
AUTO IGNITION TEMPERATURE: not available
DECOMPOSITION TEMPERATURE: not available
VAPOR PRESSURE: not available
ODOR THRESHOLD: not available
VAPOR DENSITY (air = 1): >1
pH: 12
RELATIVE DENSITY: 8.50 lb/gal
SPECIFIC GRAVITY (H₂O =1 AT 4 C): 1.02
MELTING POINT / FREEZING POINT: <-25° F
WATER SOLUBILITY: not soluble
OTHER SOLUBILITIES: Aromatic Solvent
INITIAL BOILING POINT AND BOILING RANGE: not available
EVAPORATION RATE (BuAc = 1): <0.1
PARTITION COEFFICIENT: n-OCTANOL/WATER: not available
VISCOSITY: not available
REFRACTIVE INDEX: not available
FORMULA WEIGHT: polymer

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: none under normal handling.

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

CONDITIONS TO AVOID (STABILITY): Incompatible materials. Heat, flames and ignition sources.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents



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HAZARDOUS DECOMPOSITION BY-PRODUCTS: Carbon monoxide, carbon dioxide, unidentified organic compounds.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): Not applicable – hazardous polymerization will not occur.

HAZARDOUS POLYMERICATION BY-PRODUCTS: Not applicable – hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE: irritation, burns, impairment of vision, blindness, difficulty breathing, vomiting, bleeding, diarrhea.

ACUTE EFFECTS:

EYE CONTACT: may cause irritation and burns, and possible impairment of vision or blindness.

SKIN CONTACT: may cause irritation and skin burns.

INHALATION: may cause a range from mild irritation to severe damage of the upper respiratory tract.

INGESTION: may cause burning of the mouth, stomach and throat, vomiting, bleeding, fall in blood pressure and diarrhea.

TARGET ORGAN EFFECTS: data not available

CHRONIC EFFECTS: data not available

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: may aggravate an existing dermatitis, throat, or respiratory condition.

ACUTE TOXICITY VALUES

ORAL LD50 (state animal): data not available

DERMAL LD50 (state animal): data not available



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INHALATION LC50 (state animal): data not available

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 known or anticipated 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 known or anticipated 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 known or anticipated carcinogen by OSHA.

SECTION 12: ECOLOGICAL INFORMATION

DATA FROM TOXICITY TESTS ON AQUATIC AND/OR TERRESTERIAL ORGANISMS: data not available

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

SECTION 13: DISPOSAL CONSIDERATIONS

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: no specific information available.

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



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SPECIAL PRECAUTIONS FOR LANDFILL OR INCINERATION ACTIVITIES: no specific information available.

SECTION 14: TRANSPORT INFORMATION

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

NOT DOT REGULATED

IATA

UN NUMBER: 3267

PROPER SHIPPING NAME: Corrosive liquid, basic, organic, n.o.s. (contains polyamine polyethers)

CLASS: 8

PACKING GROUP: I, II, III

SPECIAL PROVISIONS:

PACKING GROUP I: none

PACKING GROUP II: none

PACKING GROUP III: A3, A803

EXCEPTED QUANTITY

MAXIMUM PER INNER PACKAGE:

PACKING GROUP I: Forbidden

PACKING GROUP II: 30 mL

PACKING GROUP III: 30 mL

MAXIMUM PER PACKAGE:

PACKING GROUP I: Forbidden

PACKING GROUP II: 0.5 L

PACKING GROUP III: 1.0L

LIMITED QUANTITY

PACKING INSTRUCTION:

PACKING GROUP I: Forbidden

PACKING GROUP II: Y840

PACKING GROUP III: Y841

MAXIMUM PER PACKAGE:

PACKING GROUP I: Forbidden

PACKING GROUP II: 0.5 L



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PACKING GROUP III: 1.0 L

PASSENGER AIRCRAFT

PACKING INSTRUCTION:

PACKING GROUP I: 850

PACKING GROUP II: 851

PACKING GROUP III: 852

MAXIMUM PER PACKAGE:

PACKING GROUP I: 0.5 L

PACKING GROUP II: 1.0 L

PACKING GROUP III: 5.0 L

CARGO AIRCRAFT:

PACKING INSTRUCTION:

PACKING GROUP I: 854

PACKING GROUP II: 855

PACKING GROUP III: 856

MAXIMUM PER PACKAGE:

PACKING GROUP I: 2.5 L

PACKING GROUP II: 30 L

PACKING GROUP III: 60 L

ERG CODE: 8L

IMDG

UN NUMBER: UN3267

PROPER SHIPPING NAME: Corrosive liquid, basic, organic, n.o.s. (contains polyamine polyethers)

CLASS OR DIVISION: 8

SUBSIDIARY RISK(S): ---

PACKING GROUP: I, II, III

SPECIAL PROVISIONS:

PACKING GROUP I: 274

PACKING GROUP II: 274

PACKING GROUP III: 223, 274

LIMITED AND EXCEPTED QUANTITY PROVISIONS

LIMITED QUANTITIES:

PACKING GROUP I: 0



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PACKING GROUP II: 1 L
PACKING GROUP III: 5 L
EXCEPTED QUANTITIES:
PACKING GROUP I: E0
PACKING GROUP II: E2
PACKING GROUP III: E1

PACKING

INSTRUCTIONS:
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: T14
PACKING GROUP II: T11
PACKING GROUP III: T7
PROVISIONS:
PACKING GROUP I: TP2, TP27
PACKING GROUP II: TP2, TP27
PACKING GROUP III: TP1, TP28

EmS: F-A, S-B

STOWAGE AND SEGREGATION:

PACKING GROUP I: Category B. Clear from living quarters "Separated from" acids.



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PACKING GROUP II: Category B. Clear from living quarters "Separated from" acids.
PACKING GROUP III: Category A. Clear from living quarters "Separated from" acids.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): This material is listed on the TSCA inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): not applicable.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): not applicable

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: not listed

CLEAN WATER ACT (CWA): None of the chemicals listed in this product are listed as Hazardous Substances under the CWQA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

CLEAN AIR ACT (CAA): None of the chemicals listed in this product are listed as a hazardous air pollutant (HAP). This materials does not contain any Class 1 Ozone Depletors. This material does not contain any Class 2 Ozone Depletors.

STATE REGULATIONS:

California: not listed

Massachusetts: not listed

INTERNATIONAL REGULATIONS:

Persistent Organic Pollutants (United Nations): not listed

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

Ozone Depleting Substances (Montreal Protocol): not listed



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

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES: listed

CANADA: DOMESTIC SUBSTANCES LIST: listed

CANADA WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS): Class D2B: skin/eye irritation – reversible damage. Class E – Corrosive material.

CANADIAN ENVIRONMENTAL PROTECTION AGENCY TOXICS LIST: not listed

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES: Not listed

NEW ZEALAND: Not listed

PHILLIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES: Not listed

SECTION 16: OTHER INFORMATION

Prepared by: KMCO

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

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