



SAFETY DATA SHEET

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Revision Number: 1

1. COMPANY AND PRODUCT IDENTIFICATION

Product identifier

Product Name: KEMIKO® CLEAR-A-THANE
Product code: K52-1

Other means of identification

Synonyms No information available.

Application

Recommended Use Topcoat
Uses advised against For industrial use only

Supplier/Manufacturer:

Supplier:
EPMAR Corporation
13240 E. Barton Circle
Whittier, CA 90605-3254
Phone: 562-946-8781
FAX: 562-944-9958
E-mail: she@quakerchem.com
(For Health and Safety Questions)

Emergency telephone number:

* 24 HOUR TRANSPORTATION:
**CHEMTREC: 1-800-424-9300
+703-527-3887 (Call collect outside of US)
* 24 HOUR EMERGENCY HEALTH & SAFETY:
**(800) 523-7010 (Within US only) Outside of US call (703)
527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)


Serious eye damage/eye irritation

Category 2A

Skin Sensitization	Category 1
Reproductive toxicity	Category 1B

Label Elements

Emergency Overview

DANGER		
Hazard Statements		
Causes serious eye irritation		
May cause an allergic skin reaction		
May damage fertility or the unborn child		
		
Appearance White	Physical State Liquid	Odor Characteristic

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace
 wear protective gloves

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 Specific treatment (see first aid on this label)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention
 IF ON SKIN: Wash with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

May be harmful if swallowed. Causes mild skin irritation.

Unknown acute toxicity 1.5% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %
Emulsion	Proprietary	1 - 5%
Ethylene glycol monobutyl ether	111-76-2	1 - 5%
1-Methyl-2-pyrrolidone	872-50-4	<1%
Triethylamine	121-44-8	<1%
oxybis(methyl-2,1-ethanediyl) diacrylate	57472-68-1	<1%
Octamethylcyclotetrasiloxane	556-67-2	<1%

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice:	Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin contact:	Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and plenty of water. Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Inhalation:	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician if necessary. Consult a physician.
Note to physician:	Treat symptomatically.
Medical condition aggravated by exposure:	Dermatitis.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray or `alcohol` foam.
Specific hazards:	Do not allow material to contaminate ground water system.
Special protective equipment for fire-fighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific methods:	Water mist may be used to cool closed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation. Do not breathe vapour/dust. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling
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Environmental precautions: Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice: In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

Storage

Technical measures/storage conditions: Store at room temperature in the original container. DO NOT FREEZE

Incompatible products: Strong oxidizing agents

Safe storage temperature: 16 - 40 °C

Shelf life: 6 months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Ethylene glycol monobutyl ether	20 ppm (TWA)	50 ppm 240 mg/m ³	5 ppm (TWA) 24 mg/m ³ (TWA)
Triethylamine	1 ppm (TWA) 3 ppm (STEL)	25 ppm 100 mg/m ³	None

Engineering measures: Ensure adequate ventilation.

Personal Protective Equipment:

General: Eye Wash and Safety Shower

Respiratory protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/P100 filter should be worn.

Eye protection: Safety glasses with side-shields

Hand protection: Neoprene gloves

Skin and body protection: Long sleeved clothing

Hygiene measures:

Avoid contact with skin, eyes and clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	White
Odor	Characteristic
Odor Threshold	No information available.
pH concentrate:	9
pH Dilution	No information available
Melting/freezing point	No information available
Boiling Point/Range	> 100 °C / 212 °F
Flash Point	No information available
Method	No information available
Evaporation rate	No information available
Flammability Limits in Air upper flammability limit	No information available.
lower flammability limit	No information available.
VOC Content	No information available
VOC Content Product (g/L)	12.21
VOC less water and exempt (g/L)	19.49
HAP Content Product (g/L):	0
HAP Content Product (lb/gal)	0
Solids (% w/w):	30.72
Solids (% v/v):	5.18
Vapor pressure	No information available.
Vapor density	No information available.
Specific Gravity (g/cc, 15 C)	No information available
Density @ 25 ° C. (g/cc):	1.016
Bulk Density @ 77 ° F. (lb/gal):	8.48

Water Solubility	Completely soluble
Solubility in other solvents	No information available.
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition Temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Molecular Weight	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	None known.
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	None under normal use.
Hazardous Polymerization:	Not applicable.

11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Irritating to eyes.
Skin Contact	May cause sensitization by skin contact.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Emulsion	-	-	-
Ethylene glycol monobutyl ether	470 mg/kg (Rat)	220 mg/kg (Rabbit) 2270 mg/kg (Rat)	2.21 mg/L (Rat) 4 h
1-Methyl-2-pyrrolidone	3598 mg/kg (Rat)	2000 mg/kg (Rabbit) 2500 mg/kg (Rat)	3.1 mg/L (Rat) 4 h
Triethylamine	460 mg/kg (Rat)	416 mg/kg (Rabbit) 570 µL/kg (Rabbit)	3496 ppm (Rat) 1 h
oxybis(methyl-2,1-ethanediy) diacrylate	4600 mg/kg (Rat)	2 g/kg (Rabbit)	-

Octamethylcyclotetrasiloxane	1540 mg/kg (Rat)	794 µL/kg (Rabbit) 2400 mg/kg (Rat) 4640 mg/kg (Rabbit)	12.7 mg/kg (Rat) 4 h 17.6 mg/L (Rat) 1 h
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Components	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Emulsion	Not listed	Not listed	Not listed
Ethylene glycol monobutyl ether	Not listed	Not listed	Not listed
1-Methyl-2-pyrrolidone	Not listed	Not listed	Not listed
Triethylamine	Not listed	Not listed	Not listed
oxybis(methyl-2,1-ethanediy) diacrylate	Not listed	Not listed	Not listed
Octamethylcyclotetrasiloxane	Not listed	Not listed	Not listed

Sensitization Product contains a component that is classified as a skin sensitizer. No studies have been conducted on the product itself.

Mutagenic effects: No information available.

Reproductive Toxicity Product contains a componet that is classified as a reproductive hazard. No testing has been conducted on the product itself.

Developmental Toxicity No information available.

Teratogenic No information available.

Specific target organ systemic toxicity (single exposure) No information available.

Specific target organ systemic toxicity (repeated exposure) No information available.

Aspiration hazard No information available.

Additional information on toxicological effects

No information available

12. ECOLOGICAL INFORMATION

Components	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Emulsion	No data	No data	No data
Ethylene glycol monobutyl ether	1490 2950	>1000mg/L	EC50 (Daphnia magna - 24h) = 1698 - 1940 mg/L EC50 (Daphnia magna - 48h) = 1000 mg/L

1-Methyl-2-pyrrolidone	1072 1400 832	=4897mg/L 500.5	EC50 (Daphnia magna - 48h) = 4897 mg/L
Triethylamine	= 44 mg/L LC50 fathead minnow	=200mg/L	EC50 (Daphnia magna - 48h) = 200 mg/L
oxybis(methyl-2,1-ethanediyl) diacrylate	No data	No data	No data
Octamethylcyclotetrasiloxane	1001 500.5	No data	EC50 (Daphnia magna - 24h) = 25.2 mg/L

31.8545% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and Degradability No information available.

Bioaccumulation No information available.

Components	Octanol/water partition coefficient
Emulsion	-
Ethylene glycol monobutyl ether	-
1-Methyl-2-pyrrolidone	-
Triethylamine	-
oxybis(methyl-2,1-ethanediyl) diacrylate	-
Octamethylcyclotetrasiloxane	-

Mobility: No data available

Ozone: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: Do not re-use empty containers

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

Components Triethylamine
121-44-8

RCRA - Hazardous Constituents - Appendix:	waste number U404
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14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

Proper shipping name: Not Regulated

TDG (CANADA):

Proper shipping name: Not Regulated

IMDG/IMO:

Proper shipping name: Not Regulated

IATA/ICAO:

Proper shipping name:

Not Regulated

15. REGULATORY INFORMATION**Federal Regulations****OSHA Hazard Communication Standard:**

This product is considered to be hazardous under the OSHA Hazard Communication Standard.

CERCLA/SARA Information:**SARA (311, 312) hazard class:** This product possesses the following SARA Hazard Categories:

Immediate Health (Acute): Yes
Delayed Health (Chronic): No
Flammability: No
Pressure: No
Reactivity: No

Components	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Emulsion	Not listed	Not listed	Not listed
Ethylene glycol monobutyl ether	Not listed	Not listed	1.0 %
1-Methyl-2-pyrrolidone	Not listed	Not listed	1.0 %
Triethylamine	5000 lb	Not listed	1.0 %
oxybis(methyl-2,1-ethanediy) diacrylate	Not listed	Not listed	Not listed
Octamethylcyclotetrasiloxane	Not listed	Not listed	Not listed

CERCLA/SARA 313 Emission reporting: 1.2 % Glycol ether (EPA Code N230)**Clean Air and Clean Water Acts:**

Components	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Emulsion	Not listed	Not listed	Not listed	Not listed
Ethylene glycol monobutyl ether	Exempt	Not listed	Not listed	Not listed
1-Methyl-2-pyrrolidone	Not listed	Not listed	Not listed	Not listed
Triethylamine	Listed	Listed	Not listed	Not listed
oxybis(methyl-2,1-ethanediy) diacrylate	Not listed	Not listed	Not listed	Not listed
Octamethylcyclotetrasiloxane	Not listed	Not listed	Not listed	Not listed

U.S. STATE REGULATIONS (RTK):

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Emulsion	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethylene glycol monobutyl ether	Not Listed	Present	Not Listed	0275	Present
1-Methyl-2-pyrrolidone	developmental toxicity	Present	Not Listed	3716	Present

Triethylamine	Not Listed	environmental hazard	Not Listed	sn 1907	Present
oxybis(methyl-2,1-ethanediyl) diacrylate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Octamethylcyclotetrasiloxane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

California Proposition 65 Status: May contain trace amounts of listed chemicals: methanol.

RCRA Status: Not regulated

CANADIAN REGULATIONS:

Canada - WHMIS Classification Information: This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Canadian Product Classification: Class D1
Class D2B

Product Classification Graphic(s):



Component Classification Data:

Components	WHMIS hazard class	CEPA Schedule I	Challenge Substances
Emulsion	None	Not listed	Not listed
Ethylene glycol monobutyl ether	B3, D1A, D2B	Listed	Not listed
1-Methyl-2-pyrrolidone	B3 D2B	Listed	Not listed
Triethylamine	B2; D1B; E	Listed	Not listed
oxybis(methyl-2,1-ethanediyl) diacrylate	None	Not listed	Not listed
Octamethylcyclotetrasiloxane	None	Not listed	Listed

INVENTORY STATUS:

United States TSCA - Sect. 8(b) Inventory: This product complies with TSCA

Canada DSL/NDSL Inventory List Compliance has not been determined

16. OTHER INFORMATION

Sources of key data used to compile Material safety data sheets of the ingredients. the data sheet:

Prepared by: Safety, Health and Environmental Department

Revision Date: 05/22/2015

Reason for revision: New Format.

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

End of Safety Data Sheet