



Material Safety Data Sheet

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1. COMPANY AND PRODUCT IDENTIFICATION

Product code: 013986-04
Product name: **QUAKERCOOL™ 3474**

Supplier:
Quaker Chemical Corporation
Quaker Park One
901 Hector Street
Conshohocken, PA 19428
610-832-4000
E-mail: she@quakerchem.com

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Components	Weight %	CAS No.	OSHA TWA (final):	ACGIH Exposure Limits:
Mineral Oil*	1 - 5%	8012-95-1	5mg/m ³	5 mg/m ³
Polyethylene glycol dioleate	1 - 5%	9005-07-6	None	None
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	1 - 5%	4719-04-4	None	None
Benzene sulfonic acid alkyl deriv. sodium salts	1 - 5%	78330-12-8	None	None
Monoethanolamine	1 - 5%	141-43-5	3ppm	3 ppm

* May include one or more of the following CAS #: 64741-88-4, 64741-89-5, 64741-96-4, 64741-97-5, 64742-46-7, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-62-7 and 64742-65-0, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1.

3. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes.
May cause skin irritation and/or dermatitis.
May cause irritation of respiratory tract.
May be harmful if swallowed.

Principle routes of exposure: Eyes, skin and inhalation.

Signal word: CAUTION

Eye contact: Irritating to eyes.

Skin contact:	Repeated or prolonged contact with base product may cause irritation leading to various skin disorders such as dermatitis, oil acne, or folliculitis.
Inhalation:	Inhalation of vapor (generated at high temperatures only) or oil mist from this product may cause mild irritation of the upper respiratory tract.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Physico-chemical properties:	No hazards resulting from material as supplied.

4. FIRST AID MEASURES

General advice:	If symptoms persist, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin contact:	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. 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.
Notes to physician:	Treat symptomatically.
Medical condition aggravated by exposure:	Dermatitis and asthma

5. FIRE-FIGHTING MEASURES

Flash point (°F): NA	Flash Point Method: Not applicable
Flammable limits in air - lower (%): Not determined	Flammable limits in air - upper (%): Not determined
Suitable extinguishing media:	Use dry chemical, CO2, water spray or 'alcohol' foam.
Unusual hazards:	None known
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.
Environmental precautions:	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling

Technical measures/precautions:

Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice:

Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Wash thoroughly after handling.

Storage

Technical measures/storage conditions:

IF FROZEN, THAW AND MIX THOROUGHLY BEFORE USE.. Store at room temperature in the original container.

Incompatible products:

No information available

Safe storage temperature:

40-100 ° F

Shelf life:

6 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH Exposure Limits:	OSHA TWA (final):	NIOSH - Pocket Guide - TWAs:	Vendor Exposure Limits:
Mineral Oil*	5 mg/m ³	5mg/m ³	5mg/m ³	None
Polyethylene glycol dioleate	None	None	None	None
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	None	None	None	None
Benzene sulfonic acid alkyl deriv. sodium salts	None	None	None	None
Monoethanolamine	3 ppm	3ppm	3ppm	None

Engineering measures:

Ensure adequate ventilation.

Personal Protective Equipment

General:

Eye Wash and Safety Shower

Respiratory protection:

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection:

Neoprene gloves

Skin and body protection:

Usual safety precautions while handling the product will provide adequate protection against this potential effect.

Eye protection:

Safety glasses with side-shields.

Hygiene measures:

Avoid contact with skin, eyes and clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state:	Liquid.
Color:	clear amber
Odour:	Amine-like
Boiling point/boiling range (°C):	>100
Boiling point/range (°F):	>212
Vapour pressure:	Not determined
Vapour density:	Not determined
Solubility:	Emulsifiable
Evaporation rate:	Not determined
VOC Content Product (g/L):	Not determined
pH:	9.97 (9.5 @ 5%)
Flash point (°F):	NA
Decomposition temperature:	Not determined
Auto-ignition temperature:	Not determined
Density @ 15.5 ° C (g/cc) :	1.030
Bulk density @ 60 ° F (lb/gal):	8.60
Partition coefficient (n-octanol/water, log Pow):	Not determined
<u>Explosive properties:</u>	
- upper limit:	No data available
- lower limit:	No data available

10. STABILITY AND REACTIVITY

Conditions to avoid:

None known

Materials to avoid:

Strong acids and oxidising agents

Hazardous decomposition products:

None under normal use

Stability:

Stable under recommended storage conditions.

Polymerization:

Not applicable

11. TOXICOLOGICAL INFORMATION

MINERAL OIL INFORMATION: Any product containing a substance for which OSHA has established a permissible exposure limit (PEL) is considered hazardous. OSHA has established a PEL of 5 mg/m³ for worker exposure to air borne mists of mineral oils. Therefore, the presence of mineral oils brings this product within the provisions of the OSHA Hazard Communication Standard where the PEL reaches or exceeds 5 mg/m³. Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

...

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

Components	NTP:	IARC:	OSHA - Select Carcinogens	NIOSH - Selected LD50s and LC50s
Mineral Oil*	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	22g/kgOral LD50Mouse 4300mg/kgOral LD50Mouse 4300mg/kgOral LD50Rat
Polyethylene glycol dioleate	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	763mg/kgOral LD50Rat
Benzene sulfonic acid alkyl deriv. sodium salts	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	
Monoethanolamine	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	1mL/kgDermal LD50Rabbit 1720mg/kgOral LD50Rat 700mg/kgOral LD50Mouse

12. ECOLOGICAL INFORMATION

Persistence and degradability: No information available

Mobility: No data available

Bioaccumulation: No data available

Ecotoxicity effects: No data available

Aquatic toxicity: Not Determined

Monoethanolamine

Ecotoxicity - Fish Species Data = 170.0 mg/L LC50 goldfish 96 h
= 2070 mg/L LC50 fathead minnow 96 h flow-through

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:

Take up mechanically and collect in suitable container for disposal.

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

CLASSIFICATION AND LABELING

OSHA Hazard Communication Standard:

This product is considered to be hazardous.

Canada - WHMIS Classification Information:

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Product Classification:

Class D2B - Poisonous and Infectious Material: Other toxic effects - includes irritants, skin sensitizers and/ or chronic health effects

Product Classification Graphic(s):



Component Classification Data:

Mineral Oil* - 8012-95-1

WHMIS hazard class:

(Uncontrolled product according to WHMIS classification criteria)
1 % (English Item 1224, French Item 977)
B2

Monoethanolamine - 141-43-5

WHMIS hazard class: 1 % (English Item 1096, French Item 1170)
B3, E

U.S. REGULATIONS:

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

RCRA Status Not Regulated

STATE REGULATIONS (RTK):

California Proposition 65 Status: No components are listed

Mineral Oil* - 8012-95-1

MARTK: Present
NJRTK: sn 2648
PARTK: Present

Monoethanolamine - 141-43-5

MARTK: Present
NJRTK: sn 0835
PARTK: Present

INVENTORY STATUS:

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

Canada DSL Inventory List - DSL Compliance has not been determined

EC EINECS/ELINCS/NLP list: Compliance has not been determined

16. OTHER INFORMATION

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

Reason for revision: New modification

Prepared by: Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

HMIS classification: **NFPA rating:**

Health:

2

Flammability:

0

Reactivity:

0

Personal Protection:

B

Health:

2

Flammability:

0

Reactivity:

0

Special:

NA

* Indicates possible chronic health effect

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. Quaker Chemical Corporation ("Quaker") 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 Quaker.

End of Safety Data Sheet