

Material Safety Data Sheet

Version: 1 Print date: 05/16/2007 Revision date: 05/16/2007

1. COMPANY AND PRODUCT IDENTIFICATION

Product name: QUAKER FORMULA® 97

Product code: 013826-02 02

Supplier: **Emergency telephone number:**

Quaker Chemical Corporation * 24 HOUR TRANSPORTATION: Quaker Park One **CHEMTREC: 1-800-424-9300

703-527-3887 (Call collect outside of US) 901 Hector Street

Conshohocken, PA 19428 * 24 HOUR EMERGENCY HEALTH & SAFETY:

610-832-4000 **QUAKER CHEMICAL CORPORATION: (800) 523-7010(E-mail: she@quakerchem.com

Within US only)

Outside of US call (703) 527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Components	CAS No.	Weight %	OSHA Ceiling Limits	OSHA TWA (final):	ACGIH Ceiling Limits	ACGIH Exposure Limits:	Vendor Exposure Limits:
C12-C14 tert alkyl amines, ethoxylated	73138-27-9	1 - 5%		None		None	
Potassium hydroxide	1310-58-3	1 - 5%	2mg/m ³	None	2mg/m ³	None	

3. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes. Irritating to skin.

May cause irritation of respiratory tract. May be harmful if swallowed.

Signal word: CAUTION

Principle routes of exposure: Eyes, skin and inhalation.

Eye contact: Irritating to eyes. Skin contact: Irritating to skin.

Inhalation: Avoid breathing vapors or mists. May cause irritation of respiratory tract.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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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 thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact: Rinse immediately with plenty of water for at least 15 minutes

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:

None known.

5. FIRE-FIGHTING MEASURES

Flash Point (°C): Not applicable Flash point (°F): Not applicable Flash Point Method: Not applicable

Flammable limits in air - upper (%): Not determined Flammable limits in air - lower (%): 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 Provide sufficient air exchange and/or exhaust in work rooms.

measures/precautions:

Safe handling advice: In case of insufficient ventilation, wear suitable respiratory equipment.

Storage

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Technical measures/storage

conditions:

Store at room temperature in the original container

Incompatible products: strong oxidizing agents

Safe storage temperature: 40-100 ° F

Shelf life: 6 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH Ceiling Limits	ACGIH Exposure Limits:	OSHA Ceiling Limits	OSHA TWA (final):	NIOSH - Pocket Guide - TWAs:	Vendor Exposure Limits:
C12-C14 tert alkyl amines, ethoxylated		None		None	None	None
Potassium hydroxide	2mg/m ³	None	2mg/m ³	None	2mg/m³Ceilin g	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/MSHA certified respirator with organic

vapor/P100 filter should be worn.

Hand protection: Neoprene gloves

Skin and body protection: Long sleeved clothing

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 Yellow
Odour: Soapy
Boiling point/range (°C): >100
Boiling point/range (°F): >212

Vapour pressure:
Not determined
Vapour density:
Not determined

VOC Content Product (lb/gal)
Solubility:

Evaporation rate:
pH:

Decomposition temperature:

0.067 (EPA Method 24)
Completely soluble
Not determined
9.50-10.50@100%
Not determined

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9. PHYSICAL AND CHEMICAL PROPERTIES:

Auto-ignition temperature: Not determined

Density @ 15.5 ° C (g/cc) : 1.056 Bulk density @ 60 ° F (lb/gal): 8.81

Partition coefficient Not determined

(n-octanol/water, log Pow):

Explosive properties:

- upper limit: No data available- lower limit: No data available

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Conditions to avoid:

None known

Materials to avoid:

Strong acids and oxidising agents

Hazardous decomposition products:

None under normal use

Polymerization:

Not applicable

11. TOXICOLOGICAL INFORMATION

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

Components	NTP:	IARC:	OSHA -	NIOSH -
			Select Carcinogens	Selected LD50s and
				LC50s
C12-C14 tert alkyl amines,	This product does	This product does	This product does	2.7g/kg oral LD50
ethoxylated	not contain any	not contain any	not contain any	2.4g/kg dermal LD50
	material shown to be	material shown to be	material shown to be	
	a carcinogen by the	a carcinogen by the	a carcinogen by	
	National Toxicology	International Agency	OSHA.	
	Program (NTP).	for Research on		
		Cancer (IARC).		
Potassium hydroxide	This product does	This product does	This product does	214mg/kgOral LD50Rat
	not contain any	not contain any	not contain any	
	material shown to be	material shown to be	material shown to be	
	a carcinogen by the	a carcinogen by the	a carcinogen by	
	National Toxicology	International Agency	OSHA.	
	Program (NTP).	for Research on		
		Cancer (IARC).		

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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

Potassium hydroxide

Ecotoxicity - Fish Species Data LC50 (Gambusia affinis - 24h) = 80.0 mg/L

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 under the OSHA Hazard Communication

Standard.

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):

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Component Classification

Data:

Potassium hydroxide - 1310-58-3 WHMIS hazard class:Listed

D1B, E; E (including 0.11%, 2.5%, 2.8%, 0.01 N, 0.1 N, 10%, 1 N, 25%, 28%, 33.3%,

40%, 45%, 50%)

Canadian National Pollution

Inventory Data:

U.S. REGULATIONS:

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

Immediate Health (Acute):YesDelayed Health (Chronic):NoFlammability:NoPressure:NoReactivity:No

RCRA Status Not Regulated

Potassium hydroxide - 1310-58-3

Clean Water Act - Hazardous Substances Listed

STATE REGULATIONS (RTK):

California Proposition 65 Status: No components are listed

Potassium hydroxide - 1310-58-3

MARTK: Listed NJRTK: Listed PARTK: Listed

INVENTORY STATUS:

United States TSCA - Sect. 8(b) Inventory:

This product complies with TSCA

Canada DSL Inventory List - This product complies with DSL

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

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16. OTHER INFORMATION

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

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

Reason for revision: This data sheet contains changes from the previous version in section(s) 9 VOC data

added

HMIS classification: NFPA rating:

Health: Health: 2

Flammability: Flammability:

Reactivity: Reactivity:

Personal Protection: Special: NA

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

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^{*} Indicates possible chronic heath effect