



Material Safety Data Sheet

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1. COMPANY AND PRODUCT IDENTIFICATION

Product code: 013093-08 02
Product name: QUAKERCLEAN™ 520 FB

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

Listed Components	Weight %	CAS No.	OSHA TWA (final):	ACGIH Exposure Limits:
Sodium hydroxide	1-5	1310-73-2	3mg/m ³	None
4-Nonylphenoxypolyethoxyethanol, branched	1 - 5%	127087-87-0	None	None
Diethylene glycol monobutyl ether	1 - 5%	112-34-5	None	None
2-Aminoethanol	1 - 5%	141-43-5	3ppm 3mg/m ³	3 ppm 6ppmSTEL
Ethoxylated nonylphenol	1 - 5%	9016-45-9	None	None
Glycol ether	1 - 5%	EPA Code N230	None	None

3. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes.
Irritating to skin.
Irritating to respiratory system.
May be harmful if swallowed.

Principle routes of exposure: Eyes, skin and inhalation.

Signal word: WARNING

Eye contact: Irritating to eyes.
Skin contact: Irritating to skin.
Inhalation: Avoid breathing vapors or mists. Irritating to respiratory system.
Ingestion: May be harmful if swallowed. Can burn mouth, throat, and stomach. 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. Consult a physician
Skin contact: Wash off immediately with soap and plenty of water. Consult a physician if necessary.
Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting. 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): NA **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. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Keep container tightly closed. Wash thoroughly after handling.

Storage

Technical measures/storage conditions: Store at room temperature in the original container

Incompatible products: No information available

Safe storage temperature: 40-110 F

Shelf life: 6 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Listed Components	ACGIH Exposure Limits:	OSHA TWA (final):	NIOSH - Pocket Guide - TWAs:	Vendor Exposure Limits:
Sodium hydroxide		3mg/m ³	2mg/m ³ Ceiling	
2-Aminoethanol	3 ppm 6ppmSTEL	3ppm 3mg/m ³	15mg/m ³ STEL 3ppmTWA 6ppmSTEL 8mg/m ³ TWA	

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: Chemical resistant apron. 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 density:	Not determined
Vapour pressure:	Not determined
Solubility:	Completely soluble
Evaporation rate:	Not determined
VOC Content Product:	1.58 lb/gal (EPA Method 24)
pH:	10.3-10.8
Flash point (°C):	NA
Flash point (°F):	NA
Decomposition temperature:	Not determined
Autoignition temperature:	Not determined
Density @ 15.5 ° C (g/cc) :	1.044
Bulk density @ 60 ° F (lb/gal):	8.71
Partition coefficient (n-octanol/water, log Pow):	Not determined
Explosive properties:	
- upper explosion limit:	No data available
- lower explosion 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

This product contains diethylene glycol monobutyl ether which has been shown to cause red blood cell hemolysis with secondary injury to the kidney & liver in laboratory animals. However, humans appear to be resistant to this effect.

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

Listed Components	NTP:	IARC:	OSHA - Select Carcinogens	NIOSH - Selected LD50s and LC50s
Sodium hydroxide	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.	
4-Nonylphenoxypolyethoxyethanol, branched	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.	
Diethylene glycol monobutyl ether	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.	2400mg/kgOral LD50Mouse 2700mg/kgDermal LD50Rabbit 5660mg/kgOral LD50Rat
2-Aminoethanol	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
Ethoxylated nonylphenol	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.	1310mg/kgOral LD50Rat 2mL/kgDermal LD50Rabbit 50g/kgOral LD50Mouse
Glycol ether	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.	

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

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:

Sodium hydroxide - 1310-73-2

WHMIS hazard class: E

Diethylene glycol monobutyl ether - 112-34-5

WHMIS hazard class: B3; D2B

2-Aminoethanol - 141-43-5

WHMIS hazard class: B3; E

Ethoxylated nonylphenol - 9016-45-9

WHMIS hazard class: D2B

U.S. REGULATIONS:

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

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

Diethylene glycol monobutyl ether - 112-34-5

CERCLA/SARA 313 Emission reporting Listed

Glycol ether - EPA Code N230

CERCLA/SARA 313 Emission reporting Listed

RCRA Status Not Regulated

Diethylene glycol monobutyl ether - 112-34-5

CAA - 1990 Hazardous Air Pollutants: Listed

STATE REGULATIONS (RTK):

California Proposition 65 Status: No components are listed

Sodium hydroxide - 1310-73-2

MARTK: Present
NJRTK: sn 1706
PARTK: environmental hazard

Diethylene glycol monobutyl ether - 112-34-5

PARTK: environmental hazard

2-Aminoethanol - 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 -

This product complies with DSL

Canada NDSL Inventory List -

NDSL compliance has not been determined

EU 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 Format

Prepared by:

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

HMIS classification:

NFPA rating:

Health:
2*

Health:
2

Flammability:
0

Flammability:
0

Reactivity:
0

Reactivity:
0

Personal Protection:
B

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