

# SAFETY DATA SHEET

## AC-854-GEL-NF

SDS according to the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200), Revision 2012

### Section 1. Identification

**Product code** : AC-854GELNF  
**Product name** : AC-854-GEL-NF  
**Other means of identification** : Not available.

#### Relevant identified uses of the substance or mixture and uses advised against

**Relevant uses** : Chemical Milling Maskant  
**Uses advised against** : Any other purpose.

**Supplier** : AC Products, Inc.  
 9930 Painter Avenue  
 Whittier, CA 90065 USA  
 T: 562-946-8781  
  
 ProductStewardship@quakerhoughton.com  
 www.quakerhoughton.com

**Emergency telephone number (with hours of operation)** : CHEMTREC US/Canada:1-800-424-9300 or 1-703-527-3887 (24 hours)

### Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
**Classification of the substance or mixture** : SKIN IRRITATION - Category 2  
 CARCINOGENICITY - Category 2  
 TOXIC TO REPRODUCTION - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### GHS label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Causes skin irritation.  
 Suspected of causing cancer.  
 Suspected of damaging fertility or the unborn child.  
 May cause damage to organs through prolonged or repeated exposure.

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## Section 2. Hazards identification

### Precautionary statements

<b>Prevention</b>	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapor. Wash thoroughly after handling.
<b>Response</b>	: IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention.
<b>Storage</b>	: Store locked up.
<b>Disposal</b>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazards not otherwise classified</b>	: None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

Ingredient name	%	CAS number
tetrachloroethylene	≥50 - ≤75	127-18-4
Talc , not containing asbestiform fibres	≥10 - ≤25	14807-96-6
toluene	≤10	108-88-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

## Section 4. First aid measures

### Description of necessary first aid measures

<b>General advice</b>	: Get medical attention. If medical advice is needed, have product container or label at hand. Use personal protective equipment as required. Remove contaminated clothing and wash it before reuse. Wash skin surfaces thoroughly after contact.
<b>Inhalation</b>	: Move affected person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.
<b>Skin contact</b>	: Wash with plenty of soap and water. Remove contaminated clothing and wash it before reuse. Get medical attention if symptoms occur.
<b>Eye contact</b>	: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do.
<b>Ingestion</b>	: Ingestion may cause gastrointestinal irritation and diarrhea. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	: Not expected under normal use.
<b>Skin contact</b>	: pain or irritation, redness
<b>Eye contact</b>	: pain or irritation, redness, watering
<b>Ingestion</b>	: Not expected under normal use.

### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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## Section 4. First aid measures

- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Use personal protective equipment as required.

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : In a fire, hazardous decomposition products may be produced. carbon oxides (CO, CO<sub>2</sub>) nitrogen oxides halogenated compounds carbonyl halides metal oxide/oxides

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see Section 8). Keep unnecessary personnel away. Avoid breathing vapor or mist. Provide adequate ventilation.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Evacuate area.

- Environmental precautions** : Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Do not allow any potentially contaminated water, including rain water, runoff from fire fighting or spills, to enter any waterway, sewer or drain.

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
- Storage temperature** : Store between the following temperatures: 4 to 40°C (39.2 to 104°F).
- Shelf life** : 2 years

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
tetrachloroethylene	<b>ACGIH TLV (United States, 1/2022).</b> TWA: 25 ppm 8 hours. TWA: 170 mg/m <sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 685 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 25 ppm 8 hours. TWA: 170 mg/m <sup>3</sup> 8 hours. <b>OSHA PEL Z2 (United States, 2/2013).</b> TWA: 100 ppm 8 hours. CEIL: 200 ppm AMP: 300 ppm 5 minutes.
Talc , not containing asbestiform fibres	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable dust <b>ACGIH TLV (United States, 1/2022).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction <b>NIOSH REL (United States, 10/2020).</b> TWA: 2 mg/m <sup>3</sup> 10 hours. Form: Respirable fraction
toluene	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 100 ppm 8 hours. TWA: 375 mg/m <sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL Z2 (United States, 2/2013).</b> TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. <b>NIOSH REL (United States, 10/2020).</b>

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## Section 8. Exposure controls/personal protection

TWA: 100 ppm 10 hours.  
 TWA: 375 mg/m<sup>3</sup> 10 hours.  
 STEL: 150 ppm 15 minutes.  
 STEL: 560 mg/m<sup>3</sup> 15 minutes.  
**ACGIH TLV (United States, 1/2022).**  
**Ototoxicant.**  
 TWA: 20 ppm 8 hours.

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Keep equipment clean.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.
- Other skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use. Use appropriate respiratory protection if there is a risk of exceeding any exposure limits.
- Thermal hazards** : Not expected under normal use. Not relevant/applicable due to nature of the product.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : Opaque. Light Blue.
- Odor** : Solvent.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.

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## Section 9. Physical and chemical properties

<b>Boiling point</b>	: 121°C (249.8°F)
<b>Flash point</b>	: Closed cup: 121°C (249.8°F)
<b>Evaporation rate</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Density</b>	: 1.484 g/cm <sup>3</sup> [25°C (77°F)]
<b>Solubility</b>	:

Media	Result
water	Not soluble

**Partition coefficient: n-octanol/water** : Not applicable.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

### VOC content

<b>Product</b>	: 75.03 g/l 0.63 lbs/gal
<b>Product less water and exempt</b>	: 206.66 g/l 1.73 lbs/gal
<b>HAPs Product</b>	: 1104 g/l (9.22 lbs/gal)

### Particle characteristics

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : No specific measures identified.

**Incompatible materials** : Strong oxidizing materials. strong acids. strong alkalis

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## Section 11. Toxicological information

### Information on toxicological effects

**Acute toxicity** : Based on available data, the classification criteria are not met.

#### Acute toxicity estimates

Route	ATE value
Oral	49461.51 mg/kg

#### Numerical measures of toxicity

Product/ingredient name	Result	Species	Dose	Exposure
tetrachloroethylene	LD50 Oral	Rat	2629 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	12000 mg/kg	-
	LD50 Oral	Rat	636 mg/kg	-

**Irritation/Corrosion** : Causes skin irritation.

Product/ingredient name	Result	Species	Score	Exposure	Observation
tetrachloroethylene	Eyes - Mild irritant	Rabbit	-	162 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 810 mg	-
Talc , not containing asbestiform fibres	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 uL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Suspected of causing cancer.

Product/ingredient name	OSHA	IARC	NTP
tetrachloroethylene	-	2A	Reasonably anticipated to be a human carcinogen.
Talc , not containing asbestiform fibres	-	3	-
toluene	-	3	-

**Reproductive toxicity** : Based on available data, the classification criteria are not met.

**Specific target organ toxicity (single exposure)** : Based on available data, the classification criteria are not met.

Name	Category	Route of exposure	Target organs
tetrachloroethylene	Category 3	-	Narcotic effects
toluene	Category 3	-	Narcotic effects

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## Section 11. Toxicological information

**Specific target organ toxicity (repeated exposure)** : May cause damage to organs through prolonged or repeated exposure.

Name	Category	Route of exposure	Target organs
toluene	Category 2	-	-

**Aspiration hazard** : Based on available data, the classification criteria are not met.

Name	Result
toluene	ASPIRATION HAZARD - Category 1

**Other information** : None identified.

### Information on the likely routes of exposure

**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation.  
**Eye contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : Not expected under normal use.  
**Skin contact** : pain or irritation, redness  
**Eye contact** : pain or irritation, redness, watering  
**Ingestion** : Not expected under normal use.

## Section 12. Ecological information

Water polluting material. May be harmful to the environment if released in large quantities.

### Toxicity

Product/ingredient name	Result	Species	Exposure
tetrachloroethylene	Acute EC50 3.64 mg/l	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Acute EC50 504 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 3.5 mg/l Marine water	Crustaceans - Elminius modestus	48 hours
	Acute LC50 3.40071 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 4000 µg/l Fresh water	Fish - Jordanella floridae - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic EC10 1.77 mg/l	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Chronic NOEC 0.4 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 500 µg/l Fresh water	Fish - Pimephales promelas - Larvae	32 days
	Acute LC50 >100 mg/l	Fish - Brachydanio rerio	96 hours
	Acute EC50 12.5 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
Talc, not containing asbestiform fibres			
toluene			

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## Section 12. Ecological information

	Acute EC50 433 mg/l	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia magna	21 days

### Persistence and degradability

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
tetrachloroethylene	2.53	49	low
toluene	2.73	90	low

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty containers or liners may retain some product residues. Empty containers retain product residue and can be hazardous. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

### United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Tetrachloroethylene	127-18-4	Listed	U210
Toluene	108-88-3	Listed	U220

## Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	UN1897	UN1897	UN1897
UN proper shipping name	Tetrachloroethylene	TETRACHLOROETHYLENE	Tetrachloroethylene

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## Section 14. Transport information

<b>Transport hazard class(es)</b>	6.1  	6.1  	6.1 
<b>Packing group</b>	III	III	III
<b>Environmental hazards</b>	Yes.	Yes.	No.

### Additional information

#### DOT Classification

: This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.  
**Reportable quantity** Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**Limited quantity** Yes.

**Packaging instruction** Exceptions: 153. Non-bulk: 203. Bulk: 241.

**Quantity limitation** Passenger aircraft/rail: 60 L. Cargo aircraft: 220 L.

**Special provisions** IB3, N36, T4, TP1

#### IMDG

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**Emergency schedules** F-A, S-A

#### IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Quantity limitation** Passenger and Cargo Aircraft: 60 L. Packaging instructions: 655.

Cargo Aircraft Only: 220 L. Packaging instructions: 663. Limited Quantities - Passenger

Aircraft: 2 L. Packaging instructions: Y642.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### U.S. Federal regulations

#### Clean Water Act (CWA) 311

Ingredient name	CAS number
Toluene	108-88-3

#### Clean Water Act (CWA) 307

Ingredient name	CAS number
tetrachloroethylene	127-18-4
toluene	108-88-3

#### Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

Ingredient name	CAS number
tetrachloroethylene	127-18-4
toluene	108-88-3

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## Section 15. Regulatory information

### CERCLA: Hazardous substances.

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

**Reportable quantity** : tetrachloroethylene: 100 lbs. (45.4 kg); Formaldehyde, solution: 100 lbs. (45.4 kg); xylene: 100 lbs. (45.4 kg); ethylbenzene: 1000 lbs. (454 kg); benzene: 10 lbs. (4.54 kg); toluene: 1000 lbs. (454 kg);

### SARA 302/304

None of the components are listed.

### SARA 311/312

**Classification** : See GHS Classification in section 2 for hazard class information

### SARA 313

	Product name	CAS number	De minimus exemptions:
Form R - Reporting requirements	tetrachloroethylene toluene	127-18-4 108-88-3	0.1% 1%

### State regulations

**Massachusetts** : The following components are listed: TETRACHLOROETHYLENE; TALC; TOLUENE  
**New York** : The following components are listed: Tetrachloroethylene; Toluene  
**New Jersey** : The following components are listed: TETRACHLOROETHYLENE; TALC (NOT CONTAINING ASBESTOS FIBERS); TOLUENE  
**Pennsylvania** : The following components are listed: ETHENE, TETRACHLORO-; TALC; BENZENE, METHYL-

### California

#### California Prop. 65

Ingredient name	Concentration	
tetrachloroethylene	60-70	Cancer
Toluene	5-10	Developmental
Benzene	Trace	Cancer, Developmental, Reproductive male
Silica, crystalline	Trace	Cancer
Ethylbenzene	Trace	Cancer
Formaldehyde	Trace	Cancer

### SCAQMD Rule 1144

This product has not been tested for VOC content by the ASTM E-1868-10 (2021) method and is not approved for sale or distribution in the SCAQM District of California if the product is used as a metal forming, metal removal, metal treating, metal protection fluid

### International regulations

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

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## Section 15. Regulatory information

Not listed.

### Inventory list

**United States** : All components are active or exempted.  
**Canada** : All components are listed or exempted.

## Section 16. Other information

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Quaker Houghton Product Stewardship

**Key to abbreviations** : ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SGG = Segregation Group  
 UN = United Nations  
 VOC = Volatile Organic Compound

**References** : **Safety data sheets of raw materials, global regulatory body information, scientific literature, and testing data .**

▀ Indicates information that has changed from previously issued version.

### Notice to reader

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 correct to the best of our knowledge, information and belief at the date of its publication. 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.

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