

Material Safety Data Sheet – Microgen Quat-80



MATERIAL SAFETY DATA SHEET – MICROGEN QUAT-80

Section 1: Product & Company Identification

Trade Name: MICROGEN QUAT-80
EPA Number: 10324-27-61178
Product Class: Quaternary Ammonium Compound
Product Use: Quat Active (MUP)
Manufacturer: Microgen Inc.
33 Clinton Road, Suite 102
Clinton Square Executive Center
West Caldwell, NJ 07006 USA
Telephone Numbers: 24 hr. Emergency Assistance: Chemtrec 1-800-424-9300 or 1-703-527-3887
Product or Company Information: 1-847-290-1621 (Mon – Fri)

Section 2: Composition/Information on Ingredients

Ingredient	CAS #	Wt. %
Alkyl dimethyl benzyl ammonium chloride (C ₁₂₋₁₈)	68391-01-5	40.0 - 43.0
Alkyl dimethyl ethyl benzyl ammonium chloride (C ₁₂₋₁₄)	85409-23-0	40.0 – 43.0
Ethanol	67-17-5	10.0 – 15.0
Water	7732-18-5	5.0 - 10.0

Section 3: Hazards Identification

Emergency Overview Clear, colorless to straw colored liquid. Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.

Potential Health Effects:

- Skin:** Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin.
- Eyes:** Causes burns and may result in permanent injury to eyes including blindness.
- Inhalation:** Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness.
- Ingestion:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Chronic:** Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

Section 4: First Aid Measures

- Eyes:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.
- Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Inhalation:** If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

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Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5: Fire Fighting Measures

Flash Point: 104°F (40.0°C) - Pensky Martin Closed Cup

Upper & Lower Flame Limits Not determined

Extinguishing Media: Dry chemical, foam, carbon dioxide or water fog. Solid water streams may spread burning liquid.

Fire Fighting Equipment & Instructions: Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.

Hazardous Combustion Products: Irritating and toxic gases or fumes may be released during a fire.

Unusual Fire Explosion Hazards Explosive mixtures can form with air. Combustion products are toxic. Solvent vapors can travel to an ignition source and flash back.

Section 6: Accidental Release Measures

Spill and Leak Procedures

Emergency Action: Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

Spill Cleanup: Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.

Large Spills: Dike far ahead of liquid spill for later disposal. Water spray may reduce vapor but will increase foaming. Water may not prevent ignition in closed spaces.

Section 7: Handling & Storage

Handling Procedures: Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.

Storage Procedures: Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Provide adequate local exhaust ventilation (explosion proof) to maintain worker exposure below exposure limits.

Personal Protective Equipment:

Eyes/Face: Wear chemical goggles. Use a face shield if splashing is possible.

Skin: Use impervious gloves (rubber or neoprene). Wear suitable protective clothing.

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Respiratory: If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations.

General: Eye wash fountain and emergency showers are recommended.

The following ingredients have established exposure guidelines:

Ingredient	Exposure Guideline	Guideline Value
Ethanol 64-17-5	ACGIH TWA (2002)	1000 ppm (TWA)
	NIOSH Pocket Guide	1000 ppm (TWA)
	Alberta (Canada)	1000 ppm (TWA), 1250 ppm (STEL)
	British Columbia, Manitoba, New Brunswick, Ontario, Quebec (Canada)	1000 ppm (TWA)
	Saskatchewan (Canada)	1880 mg/m ³ (TWA), 2350 mg/m ³ (STEL)
	Yukon (Canada)	1000 ppm (TWA), 1000 ppm (STEL)
	Mexico – Instruction No. 10	1000 ppm (TWA)

All TWAs are for an 8-hour period and all STELs are for 15 minutes unless specifically noted as being for another time period.

Section 9: Physical & Chemical Properties

Flash Point: 104°F (40.0°C) Pinsky Martin Closed Cup

Specific Gravity: 0.9487 (7.87 lbs/gal)

Percent Volatiles: 20% (weight %)

Vapor Pressure: Not determined.

VOC Content 10%

Vapor Density: Not determined.

Viscosity: 245.4 mm²/s (cSt)

Evaporation Rate: Not determined.

Pour Point: Not determined.

pH : 6 –8 for 10% Aqueous Solution

Appearance and Odor: Clear, colorless to straw colored liquid with benzaldehyde (organic) odor.

Section 10: Stability & Reactivity

Chemical Stability: Material is stable.

Conditions to Avoid: Keep away from heat and strong oxidizing agents.

Incompatibilities: Strong oxidizing agents (may result in fire.), reducing agents.

Hazardous Decomposition: Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Carcinogenicity No Carcinogenicity data available for this product.

Acute Oral LD50 500 mg/kg for males.

Acute Dermal Greater than 2000 mg/kg.

Primary Skin Corrosive, severe irritant.

Primary Eye Corrosive, sever ocular irritant.

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Chemicals Ingredients Listed as Potential or Known Carcinogens

Ingredient	OSHA	NTP	IARC
No ingredients listed in this section.			

Section 12: Ecological Information

Ecotoxicity Very Toxic to aquatic organisms
 Information available upon request. Please contact Mason Chemical Company Technical Service Department.

Environmental Fate
 This product is biodegradable

Section 13: Disposal Considerations

Disposal Instructions

This substance, when discarded or disposed of, is a characteristic hazardous waste according to Federal regulation (40 CFR 261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

Section 14: Transport Information

DOT Hazard Class 8 Corrosive
DOT Proper Shipping Name Disinfectants Liquid Corrosive N.O.S.(Quaternary Ammonium Compound), 8, UN1903, PG II

Section 15: Regulatory Information

TSCA Status

While three of four ingredients are listed on the TSCA Chemical Inventory, this product is regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and not subject to the TSCA Inventory rules for FIFRA uses.

Other Chemical Inventories

All components of this product are listed on the following inventories: European Union, China. One or more ingredients not found on inventories of Australia, Canada (DSL), Japan and Korea, and Philippines.

CERCL/SARA

SARA Title III, Sections 311/312 – This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370:
Classification of this product: Immediate, Fire

SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

Chemical Name	CAS No.	Maximum Concentration	Comment
No ingredient listed in this section. (Isopropanol listing only for strong acid process but no supplier notification required.)			

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs) SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this

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material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

Chemical Name	Reportable Quantity (RQ)	Threshold Planning Quantity (TPQ)
No ingredients listed in this section.		

State & Provincial Right to Know & Selected Regulatory Lists

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List

Chemical Name	State List
Benzyl Chloride (trace < 10 ppm)	AZ, CA, CAP65C, CT, FL, ID, MA, MN, NJ, PA, RI
Ethanol	AZ, CA, CT, FL, ID, MA, MN, NJ, PA, RI

AZ – Arizona Ambient Air Quality Guidelines CT – Connecticut Hazardous Air Pollutants CA – California Director's List of Hazardous Substances CAP65C – California Prop 65 Carcinogen FL – Florida Substances List ID – Idaho Non-carcinogen Toxic Air Pollutants IL – Illinois Toxic Air Contaminant - Carcinogenic	MA – Massachusetts Right to Know List MN – Minnesota Hazardous Substances List NJ – New Jersey Right to Know List PA – Pennsylvania Right to Know List RI – Rhode Island Hazardous Substances List
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WHMIS Classification: B3, D1B, E. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

Current Issue Date: January 2010
Previous Issue Date: May 2008
Changes from Previous Issue Date: Literature Update

Hazard Ratings	HMIS (II)	NFPA
Health	3	3
Flammability	2	2
Reactivity	0	0
PPE	X	

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