

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Arcot #9709M Refresh Quat Sanitizer, EPA Registration Number 10324-81
(including Max-Control Dispensing System #6709)

Manufacturer: Arcot Manufacturing Corporation, 2950 Mowery Road, Houston, Texas, U.S.A. 77045

Emergency Response Telephone: 1-800-633-8253 (Account #9390)

Arcot Customer Service Telephone: 713-413-9700

Website: www.ArcotManufacturing.com

Recommended Use: Sanitizer, disinfectant, virucide, food-contact sanitizer, bacteriostat

Restrictions On Use: This product is intended to be diluted prior to use. For further information refer to the EPA Registered product label. Uses other than those identified are not recommended.

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Hazard Classification, Concentrate:

Serious eye damage/eye irritation – Category 1 (Serious eye damage)

Skin corrosion/irritation - Category 1B

Acute toxicity, oral – Category 4

Acute toxicity, dermal – Category 4

Hazard Classification, At Use-Dilution:

Serious eye damage/eye irritation – Category 2B (Mild Irritant according to GHS Classification 3.2.4)

Signal Word: **DANGER!**



This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Listed below is the hazard information as required on the pesticide label:

Signal word: DANGER. KEEP OUT OF REACH OF CHILDREN.

Hazard statement: Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled, or absorbed through the skin.

Hazard Statements:

H302: Harmful if swallowed

H312: Harmful in contact with skin

H314: Causes severe skin burns and eye damage

Precautionary statements: Causes severe skin burns and serious eye damage. Harmful if swallowed.

Prevention:

- P260: Do not breathe mist, vapors or spray.
- P262: Do not get in eyes, on skin, or on clothing
- P264: Wash affected areas thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use in a well-ventilated area.
- P280: Wear protective gloves, protective clothing, and eye/face protection.

Response:

- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P301 + P330 + P331 + P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
- P303 + P361 + P353 + P363: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P321: Specific treatment (see supplemental first aid instructions on the label.)
- In case of fire: Use appropriate media to extinguish. See Section 5.

Storage/Disposal:

- P233: Keep container tightly closed.
- P234: Keep only in original container.
- P210: Keep away from heat.
- P273: Avoid release to the environment.
- P405: Store locked up.
- P501: Dispose of content and container to an approved waste disposal plant in accordance with local, regional, national, and/or international regulations.
- Store in a well-ventilated place. Keep cool. Store away from children and untrained personnel.

Safety Phrases:

- S36: Wear suitable protective clothing.
- S37: Wear suitable gloves.
- S39: Wear eye/face protection.
- S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Product at use dilution requires only irritant pictogram. Causes mild eye irritation.



Signal Word: WARNING

Hazard Statements: H320: Causes eye irritation

Precautionary Statements:

Prevention: P264: Wash affected areas thoroughly after handling.

Response: P305+P351+P338+P337+P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Concentration
Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	< 5%
Octyl decyl dimethyl ammonium chloride	32426-11-2	< 3%
Dioctyl dimethyl ammonium chloride	5538-94-3	< 2%
Didecyl dimethyl ammonium chloride	7173-51-5	< 2%
Other components		
Other components are below reportable levels and/or are not classified.		

Product At Use-Dilution: Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. FIRST-AID MEASURES

4.1 Description of first-aid measures

General advice: Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.

Eye contact: Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.

Skin contact: Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.

Ingestion: Do NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Rinse mouth with water. Seek medical attention.

If inhaled: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

Product At Use-Dilution

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Skin contact: No known effect after skin contact. Rinse with water for a few minutes.

Ingestion: Get medical attention if symptoms occur

If inhaled: No special measures required. Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

Risks: The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point and Method: None

5.1 Extinguishing media

Suitable extinguishing media: The product is not flammable. Use media suitable for the material that is burning.

Unsuitable extinguishing media: No data available

5.2 Special hazards arising from the substance or mixture

Special hazards during fire-fighting: Container may rupture on heating

On combustion or on thermal decomposition: May include carbon oxides, nitrogen oxides

5.3 Advice for firefighters

Special protective equipment for firefighters: As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.

Specific firefighting methods: No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Spill area may be slippery. Wear appropriate protective equipment (See Section 8).

6.2 Environmental precautions

Avoid contact of spilled material and runoff with soil and surface waterways

6.3 Methods and material for containment and cleaning up

Recovery: Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a nonmetal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. Keep in suitable, properly labeled, closed containers for disposal.

Decontamination/Cleaning: Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly. Recover the cleaning water for subsequent disposal.

Disposal: Dispose of in accordance with local regulations

Additional Advice: Spill area may be slippery

Product At Use-Dilution

Use a water rinse for final clean-up

6.4 Reference to other sections

No information available

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Technical measures: Does not require any specific or particular measures

Advice on safe handling and usage: Wear appropriate protective equipment including long chemical resistant gloves, chemical splash goggles and protective footwear. Handle in accordance with good industrial hygiene and safety practice. Do not spray toward face. Wash affected areas after use. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Product At Use-Dilution

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures for storage: Does not require any specific or particular measures

Storage class (TRGS 510): Non-combustible, corrosive materials

Storage conditions

Recommended: Keep container tightly closed. Opened containers must be carefully resealed and kept upright to prevent leakage.

Incompatible products: Hazardous reactions may occur on contact with certain chemicals. Refer to the list of incompatible materials section 10: "Incompatible materials"

Product At Use-Dilution

Keep out of reach of children. Keep container tightly closed.

7.3 Specific end use(s)

No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters

Components with workplace control parameters

Components	Value	Control Parameters	Basis
Not Reportable			

8.2 Exposure controls**Control measures**

Engineering measures: Good general ventilation should be sufficient to control airborne levels.

Respiratory protection is not required if good ventilation is maintained.

Personal protective equipment

Respiratory protection: In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Hand protection: Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Wear chemical splash goggles.

Skin and body protection: Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.

Hygiene measures: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Protective measures: Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use.

The protective equipment must be selected in accordance with current local standards and in following proper use instructions from the supplier of the protective equipment.

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

Product at Use-Dilution

Respiratory protection: A respirator is not needed under normal and intended conditions of product use

Hand protection: No protective equipment is needed under normal use conditions

Eye protection: No protective equipment is needed under normal use conditions

Skin and body protection: No protective equipment is needed under normal use conditions

Hygiene measures: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: liquid Color: clear colorless or light amber
Odor	slight
Odor Threshold	No data available
pH	5-8
Freezing point	No data available
Initial boiling point	> 212°F
Flash point	Does not flash
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	approximately 1 g/mL (8.3 Lb./Gal.) at 25°C (77°F)
Water solubility	completely soluble
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available

10.2 Chemical stability

Stable and non-reactive under normal conditions of use, storage and transport

10.3 Possibility of hazardous reactions

No information available

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

Anionic surfactants

10.6 Hazardous decomposition products

Oxides of carbon and nitrogen

11. TOXICOLOGICAL INFORMATION

Product Summary:

Causes severe skin burns and serious eye damage. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly digestive tract. Vapors and spray mist may irritate throat and respiratory system and cause coughing.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

Information on likely routes of exposure:

Eye Contact Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.

Skin Contact Corrosive. Causes severe burns. Symptoms may include burns, blisters, redness and pain (which may be delayed).

Ingestion Harmful if swallowed. Causes burns/serious damage to mouth, throat and stomach. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.

Inhalation May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.

Sensitization No known effects

Product at Use-dilution

Product Summary:

Causes eye irritation.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

Information on likely routes of exposure:

<u>Eye Contact</u>	Causes eye irritation. Symptoms may include irritation, watering, redness
<u>Skin Contact</u>	No known significant effects or critical hazards
<u>Ingestion</u>	No known significant effects or critical hazards
<u>Inhalation</u>	No known significant effects or critical hazards
<u>Sensitization</u>	No known effects

11.1 Information on toxicological effects

Acute toxicity

Acute oral: LD50 344-366 mg/kg

Acute dermal: LD50 1500-3340 mg/kg

Acute inhalation: No information available

Acute toxicity (other): No information available

Skin corrosion/irritation

Skin irritation: Corrosive. Causes severe burns

Serious eye damage/eye irritation

Eye irritation: Corrosive. Causes serious eye damage

Respiratory or skin sensitization

Sensitization: Not classified as sensitizing by skin contact

Product at Use-dilution

Acute toxicity

Acute oral: LD50 >5000 mg/kg

Acute dermal: LD50 >2000 mg/kg

Acute inhalation: No information available

Acute toxicity (other): No information available

Skin corrosion/irritation

Skin irritation: No known significant effects or critical hazards

Serious eye damage/eye irritation

Eye irritation: Causes eye irritation

Respiratory or skin sensitization

Sensitization: Not classified as sensitizing by skin contact

Mutagenicity

Genotoxicity in vitro: No information available

Genotoxicity in vivo: No information available

Carcinogenicity

Carcinogenicity: This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH

Toxicity for reproduction and development

Toxicity to reproduction/fertility: No information available

Developmental toxicity/teratogenicity: No information available

Specific Target Organ Toxicity (STOT)

STOT-single exposure: No information available

STOT-repeated exposure: No information available

Aspiration toxicity

Aspiration toxicity: No information available

Other Hazards

No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life

12.2 Persistence and degradability

Biodegradation: No information available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: No bioaccumulation is to be expected ($\log P_{ow} \leq 4$)

Bioconcentration factor (BCF): No information available

12.4 Mobility in soil

Known distribution to environmental compartments: No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

Environmental assessment: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental control agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Product Disposal: Observe all applicable federal, state, and local regulations

Packaging: Remove all residue when emptying

Product At Use-Dilution

Waste treatment methods

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or

Environmental control agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Product Disposal: Diluted product can be flushed to sanitary sewer

Packaging: Discard empty container in trash or offer for recycling

14. TRANSPORT INFORMATION

DOT (US):

For <1.3 gallon containers, this product is considered as "Limited Quantity" and is not regulated by DOT.

For >1.3 gallon containers: UN1903, Disinfectants, liquid, corrosive n.o.s. (Quaternary Ammonium Compound), 8, PGIII.

Reportable Quantity (RQ): N.A.

Poison Inhalation Hazard: No

Ground transport only. Do not ship via air.

Product At Use-Dilution: DOT Hazard Classification: Not applicable

15. REGULATORY INFORMATION

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Status: While all 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. See section 2 of this SDS.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

SARA 302 Components (Extremely Hazardous Substances): This product and its ingredients are not subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Emergency release notification: Not regulated.

SARA 313 Components: Not listed

SARA 311/312 Hazards: Acute (Immediate) Health Hazard.

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed

16. OTHER INFORMATION

HMIS & NFPA Ratings:

Concentrate:	Health = 3 (High)	Fire = 0 (Insignificant)	Reactivity = 0 (Insignificant)
At Use-Dilution:	Health = 1 (Slight)	Fire = 0 (Insignificant)	Reactivity = 0 (Insignificant)

HMIS & NFPA ratings involve data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists

CAS = Chemical Abstract Service

EPA = Environmental Protection Agency

FIFRA = Federal Insecticide, Fungicide & Rodenticide Act (administered by EPA)

GHS = Globally Harmonized System

HCS = Hazard Communication Standard

HMIS = Hazardous Materials Identification System

LC = Lethal Concentration

LD = Lethal Dose

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety & Health

NOEC = No Observed Effect Concentration = the highest concentration of the toxicant tested which has no effect on the organisms exposed to it

NOEL = No Observed Effect Level

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Limit

RTECS = Registry of Toxic Effects of Chemical Substances

STEL = Short Term Exposure Limit (based on 15-minute exposures)

TC = Toxic Concentration

TLV = Threshold Limit Values

TWA = Time Weighted Average limit or ceilings (C) (exposure limit) (based on 8 hour/day, 40 hour/week exposures)

DISCLAIMER: The information contained herein is based upon data obtained from sources believed to be reliable and reflects our best professional judgment. Since it is impossible to anticipate all of the conditions under which our products may be used, we do not guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his or her particular purpose and should comply with all federal, state and local regulations. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. We shall not be held liable for any damage resulting from handling or from contact with the above product or from improper use of our products. We do not provide any warranties, expressed or implied, and do not assume any responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. We update SDS and labels on a regular basis. Please do not hesitate to contact us for current information.

Revision Date: March 17, 2020