



# SAFETY DATA SHEET

Issue Date 09-27-2019

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Version 4

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name:** COOLING-SYSTEM FAST FLUSH

### Other means of identification

**Common Name:** 0109  
**UN/ID No** Not Regulated  
**Synonyms** None  
**Product Categories** Automotive Coolant System Cleaner

### Recommended use of the chemical and restrictions on use

**Sale and Use Restrictions** Not applicable  
**Recommended Use** Restricted to professional users.  
**Uses advised against** Consumer use

### Details of the supplier of the safety data sheet

**Supplier Address**  
MOC PRODUCTS CO., INC.  
12306 Montague Street  
Pacoima, CA 91331

### Emergency telephone number

**Company Phone Number** MOC PRODUCTS CO., INC. (818) 794-3500  
**Emergency Telephone** CHEMTREC 1-800-424-9300

**2. HAZARDS IDENTIFICATION**

**Classification**


Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

**Label elements**

**Emergency Overview**

**Warning**

**Hazard statements**  
Causes skin irritation  
Causes severe eye irritation



**Appearance** Aqueous solution                      **Physical state** Liquid                      **Odor** Mild

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

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 advice/attention  
IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

**Hazards not otherwise classified (HNOC)**

**Other information**

- Toxic to aquatic life with long lasting effects
- 11.14 % of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Weight %	Trade Secret
Triammonium citrate	3458-72-8	10-20	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### First aid measures

<b>Skin contact</b>	Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/ attention.
<b>Inhalation</b>	If affected, remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.
<b>Ingestion</b>	If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Obtain medical attention.

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

**Symptoms** Skin irritation, Eye irritation, Respiratory irritation.

##### Indication of any immediate medical attention and special treatment needed

**Self-protection of the first aider** Avoid contact with skin.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media:

Use dry chemical, CO<sub>2</sub>, water spray (fog) or alcohol resistant foam.

<b>Small Fire</b>	Dry chemical or CO <sub>2</sub> .
<b>Large Fire</b>	Water spray or fog, Alcohol resistant foam.
<b>Explosive properties:</b>	Not an explosive.

##### Specific hazards arising from the chemical

The product causes irritation of eyes, skin and mucus membranes.

**Hazardous combustion products** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Ammonia.

##### Specific methods:

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### Special firefighting procedures:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid dust formation. See Section 8 for information on appropriate personal protective equipment.

**For emergency responders** Use personal protection recommended in Section 8.

##### Environmental precautions

**Environmental precautions:** Do not let product enter drains. Avoid subsoil penetration.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for clean-up:** Ventilate the area. Avoid dust formation. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to state, local, federal regulations. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling:** Do not get in eyes, on skin, or on clothing. Keep only in the original container in a cool, well-ventilated place. Avoid prolonged or repeated contact with skin. Avoid formation of dust and aerosols.

**Conditions for safe storage, including any incompatibilities**

**Technical measures/precautions:** Local exhaust. Eye wash and safety shower should be easily accessible.

**Materials to avoid:** Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies:

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Triammonium citrate 3458-72-8	-	Not established	-

**Appropriate engineering controls**

**Engineering measures:** Ensure adequate ventilation. Eye wash and safety shower should be easily accessible.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear normal work clothing. Chemical resistant gloves. (consult with the specific manufacturer to confirm performance).

**Respiratory protection** No personal respiratory protective equipment normally required. Dried product, Effective dust mask. Recommended Use: N95 (US), P1 (EN143). Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Aqueous solution	<b>Odor threshold</b>	No information available
<b>Color</b>	Pale Yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	6.6-7.1	
<b>Melting point/freezing point</b>	< 0 °C / 32 °F	
<b>Boiling point / boiling range</b>	> 100 °C / 212 °F	
<b>Flash point</b>	No information available . / .	Not applicable
<b>Evaporation rate</b>	Slower than ether	Slower than ether
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No Data Available	
<b>Lower flammability limit</b>	No Data Available	
<b>Vapor pressure</b>	No Data Available	
<b>Vapor density</b>	Heavier than air	
<b>Specific Gravity</b>	1.06	
<b>Water solubility</b>	Soluble in water	
<b>Solubility in other solvents</b>	No Data Available	
<b>Partition coefficient</b>	No Data Available	
<b>Autoignition temperature</b>	No Data Available	
<b>Decomposition temperature</b>	No Data Available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No Data Available	
<b>Explosive properties</b>	No Data Available	
<b>Oxidizing properties</b>	No Data Available	

### Other information

<b>Softening point</b>	No Data Available
<b>Molecular weight</b>	No Data Available
<b>VOC Content (%)</b>	
<b>VOC Content (%)</b>	Negligible
<b>Density</b>	1.06 g/cc
<b>Bulk density</b>	No Data Available

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactivity Stable: Stable under normal conditions.

### Chemical stability

**Possibility of Hazardous Reactions** None under normal processing.  
**Hazardous polymerization** Hazardous polymerization does not occur.

### Conditions to avoid

No information available.

### Incompatible materials

**Materials to avoid:** Strong oxidizing agents.

### Hazardous Decomposition Products

**Hazardous Decomposition Products** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Ammonia.

**11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

<b>Product Information</b>	Causes skin irritation. Causes severe eye irritation.
<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Eye contact</b>	Causes severe eye irritation. Avoid contact with eyes.
<b>Skin Contact</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Ingestion</b>	May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Triammonium citrate 3458-72-8	-	-	-

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Sensitization</b>	No information available.
<b>Mutagenic effects:</b>	No data available to indicate product or any components present at or greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, NTP, or OSHA.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Chronic toxicity</b>	No information available.
<b>Subchronic toxicity</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Skin, Respiratory system.
<b>Neurological effects</b>	No information available.
<b>Aspiration hazard</b>	No information available.

Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity**                      11.14 % of the mixture consists of ingredient(s) of unknown toxicity

**12. ECOLOGICAL INFORMATION**

Ecotoxicity

Chronic Aquatic Toxicity: Toxic to aquatic life with long lasting effects.

13.15 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

Bioaccumulative potential.

Mobility

Soluble in water.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging** Do not reuse container. Dispose of in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %	SARA 313 - Threshold Values %
Triammonium citrate 3458-72-8	3458-72-8	10-20	1.0 % de minimis concentration

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**State Regulations (RTK)**

**California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm:

Chemical Name	CAS Number	California Proposition 65
Formaldehyde	50-00-0	Carcinogen
1,4-Dioxane	123-91-1	Carcinogen
Ethylene oxide	75-21-8	Carcinogen Developmental Female Reproductive Male Reproductive
Acetaldehyde	75-07-0	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	New York - Household Cleansing Product Info	California - Cleaning Products RTKA - Nonfunctional Constituents
1,3,-Dihydroxymethyl-5,5-Dimethylhydantoin 6440-58-0	Present	Present
Formaldehyde 50-00-0	Present	Present



1,4-Dioxane 123-91-1	Present	Present
Ethylene oxide 75-21-8	Present	Present

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

**NFPA Rating**

Health hazards 2

Flammability 0

Instability 0

Physical and Chemical Properties -

**HMIS Rating**

Health hazards 2

Flammability 0

Physical hazards 0

Personal protection B

Prepared by Environmental Health and Safety Department

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**Revision Note**

This data sheet contains changes from the previous version in section(s): 2, 12, 15.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**