

Prod.Name: COOLING SYSTEM FAST FLUSH Manufacturer: APG, INC HMCS ID: 356499 SUC: 16 - General Use	MATERIAL SAFETY DATA SHEET	Revision: 07.May.2003 Effective: 07.May.2003 Print Date: 12.Jan.2006 Page: 1 of 4
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1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: COOLING SYSTEM FAST FLUSH

External Keys:

89021562 Distributable Material (Part #)
COOLING Primary Tradename - Distributable Material
SYSTEM FAST
FLUSH

MANUFACTURER INFORMATION

Manufacturer: APG, INC

Address:

411 FAIRFIELD AVE. USA INDIANA 46360 MICHIGAN CITY MAILING

Communication Lines:

Phone 800-424-9300 CHEMTREC

Comment:

THIS MSDS IS BEING PROVIDED TO YOUR COMPANY FOR THE PURPOSE OF PROVIDING CURRENT HEALTH AND SAFETY INFORMATION TO YOUR MANAGEMENT AND FOR YOUR EMPLOYEES WHO WORK WITH THIS PRODUCT. PLEASE READ THE INFORMATION ON THESE SHEETS AND THEN PROVIDE THIS INFORMATION TO THOSE PEOPLE AT YOUR COMPANY WHOSE RESPONSIBILITY IT IS TO COMPLY WITH FEDERAL, STATE AND COMMUNITY RIGHT TO KNOW REGULATIONS. ALSO, MAKE THIS INFORMATION AVAILABLE TO ANY EMPLOYEE WHO REQUESTS IT. IF APG, INC. CONSIDERS THE FORMULA OF THIS PRODUCT TO BE A TRADE SECRET, THE EXACT CHEMICAL NAMES OF THE INGREDIENT(S) AND THE PERCENTAGES IN WHICH THEY ARE COMBINED WILL NOT APPEAR IN THE BODY OF THIS SHEET. THE EXACT COMPOSITION IS AVAILABLE UPON REQUEST TO PHYSICIANS, INDUSTRIAL HYGIENISTS AND OTHER HEALTH PROFESSIONALS. IN CASE OF AN EMERGENCY CONTACT CHEM TREK AT : USA 800-424-9300 INTERNATIONAL 703-527-3887.

2 INGREDIENT INFORMATION

FORMULATION

Ingredients:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
ACETIC ACID, (ETHYLENEDINITRILO)TETRA-	60-00-4	<	10	% Wt	No
ACETIC ACID, (ETHYLENEDINITRILO)TETRA-, TETRASODIUM SALT	64-02-8	<	8	% Wt	No
2(3H)-Benzothiazolethione, sodium salt	2492-26-4	<	1	% Wt	No
PHOSPHORIC ACID, TRISODIUM SALT	7601-54-9	=	5.1	% Wt	No
WATER	7732-18-5	<	90	% Wt	No
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	<	1	% Wt	No
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	127087-87-0	<	1	% Wt	No

3 HAZARDS IDENTIFICATION

Hazards Overview:

Skin Primary Entry: Yes. Eye Primary Entry: Yes. Inhalation Primary Entry: Yes. Ingestion Primary Entry: Yes.

Specific Hazards:

SKIN, EYE, OR INHALATION PRIMARY ENTRY ROUTE INDICATOR: N. INGESTION PRIMARY ENTRY ROUTE INDICATOR: Y.

Specific Hazards (Routes Of Exposure):

<u>Exposure Routes</u>	<u>Exposure Duration</u>	<u>Observation</u>
Skin Contact	General	SKIN CONTACT: NO SIGNS OR SYMPTOMS EXPECTED. HOWEVER, PROLONGED CONTACT MAY CAUSE IRRITATION.
Eye Contact	General	EYE CONTACT: THIS PRODUCT IS CONSIDERED AN EYE IRRITANT. CONTACT

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<u>Exposure Routes</u>	<u>Exposure Duration</u>	<u>Observation</u>
Inhalation	General	WITH EYES WILL CAUSE IRRITATION. NO SIGNS OR SYMPTOMS EXPECTED. HOWEVER, CERTAIN INDIVIDUALS MAY BE SENSITIZED AND EXPERIENCE MINOR NAUSEA OR HEADACHES.
Ingestion	General	MAY CAUSE GASTRIC DISTRESS, VOMITING AND DIARRHEA.

Medical Conditions Aggravated By Exposure:
NOT PROVIDED.

Comment:
Additional Health Hazard Data: HEALTH HAZARDS: ACUTE EFFECTS ARE POSSIBLE IRRITATION AND DISCOMFORT, NO KNOWN CHRONIC EFFECTS HAVE BEEN ESTABLISHED.

4 FIRST AID MEASURES

First Aid By::	
Inhalation	REMOVE VICTIM TO FRESH AIR, IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.
Skin Contact	SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH EFFECTED AREA WITH SOAP AND WATER. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
Eye Contact	EYE CONTACT: FLUSH EYES WITH CLEAR RUNNING WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
Ingestion	GIVE TWO GLASSES OF WATER FOR DILUTION. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

5 FIRE FIGHTING MEASURES

Flash Point:
Flash Point Text:NON-FLAMMABLE.

Fire and Explosion Hazards:
UNUSUAL FIRE OR EXPLOSION HAZARD: NONE.

Special Fire Fighting Procedures:
EXTINGUSIHING MEDIA: CO2, DRY CHEMICAL, FOAM, WATER FOG. SPECIAL FIRE FIGHTING PROCEDURES: KEEP DRUMS COOL WITH WATER SPRAY TO PREVENT DRUM RUPTURE DUE TO STEAM BUILDUP. FLOOR WILL BECOME SLIPPERY IF MATERIAL IS RELEASED.

Comment:
FLAMMABLE LIMITS (% BY VOLUME IN AIR): LOWER: NOT APPLICABLE. UPPER: NOT APPLICABLE.

6 ACCIDENTAL RELEASE MEASURES

Comment:
Spill or Leak Procedures: SPILLS OR LEAKS: WASH SANITARY SEWER WITH PLENTY OF WATER. LARGE SPILLS- CONFINE SPILL AND SOAK UP WITH APPROVED ABSORBENT, SHOVEL PRODUCT INTO APPROVED CONTAINER FOR DISPOSAL. FOR SPILLS IN EXCESS OF ALLOWABLE LIMITS NOTIFY THE NATIONAL RESPONSE CENTER (800) 424-8802; REFER TO CERCLA 40 CFR 302 FOR COMPLETE REGULATIONS CONCERNING REPORTING REQUIREMENTS.

7 HANDLING AND STORAGE

STORAGE

Additional Information on Storage Conditions:
Precautions to be Taken in Handling and Storage: KEEP CONTAINER CLOSED WHEN NOT IN USE; PROTECT CONTAINERS FROM ABUSE; PROTECT FROM EXTREME TEMPERATURES. OTHER PRECAUTIONS: KEEP THIS AND OTHER CHEMICALS OUT OF REACH OF CHILDREN; MINIMIZE BODY CONTACT WITH THIS PRODUCT WELL AS ALL CHEMICALS IN GENERAL.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:
Engineering Controls: LOCAL EXHAUST VENTILATION: NOT NECESSARY. MECHANICAL VENTILATION: YES. OTHER: SAFETY EYEBATH NEARBY.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):	
Eye Protection	GOGGLES WITH SIDE SHIELDS.
Respiratory Protection	NONE REQUIRED WHILE THRESHOLD LIMITS ARE KEPT BELOW MAXIMUM ALLOWABLE CONCENTRATIONS; IF TWA EXCEEDS LIMITS;

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Hand Protection

NIOSH APPROVED RESPIRATOR MUST BE WORN.
NEOPRENE OR RUBBER.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State: Physical State: Liquid.

Color: BLUE LIQUID

Odor: NO DISCERNIBLE ODOR.

PHYSICAL PROPERTIES

pH Value:

Concentrate = 9.54

Changes of State:

Boiling Point = 212 F

Melting/Freezing Point MELTING POINT: NOT APPLICABLE

Vapor Pressure:

17 MM @ 20 DEGREES C.

Vapor Density:

< 1

Evaporation Rate:

< 1 BUTYL ACETATE=1.

Specific Gravity:

= 1.076

Solubility:

Water Solubility in Water Text:COMPLETE.

Total Amount Of::

Percent Volatile by Volume = 85

Comment:

REFRACTIVE INDEX: 1.3483. VOLATILE ORGANIC COMPOUNDS (VOC'S): NOT APPLICABLE.

10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable

Hazardous Polymerization:

Hazardous Polymerization: None. Hazardous Polymerization Text: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION

Reactions:

Type of Reaction

Decomposition

Reaction Products

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: THERMAL DECOMPOSITION
MAY YIELD CO: CO2.

Comment:

Stability Text: STABLE. CONDITIONS TO AVOID: EXTREME TEMPERATURES. INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS, STRONG ACIDS.

11 TOXICOLOGICAL INFORMATION

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

14 TRANSPORT INFORMATION

Comment:

PROPER SHIPPING NAME: NOT REGULATED. HAZARD CLASS/DIVISION: NON-HAZARDOUS. IDENTIFICATION NUMBER: NONE. THIS DESCRIPTION IS PROVIDED TO ASSIST IN THE PROPER CLASSIFICATION OF THIS PRODUCT AND MAY NOT BE SUITABLE FOR ALL SHIPPING CONDITIONS.

15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

HMIS Reactivity 0

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HMIS Health	0
HMIS Flammability	0
NFPA Flammability	0
NFPA Health	0
NFPA Reactivity	0

NATIONAL REGULATIONS

Immediate Health: No

Delayed Health: Yes

Comment:

SARA 311/312 ASSIGNED BY GENERAL MOTORS TECHNICAL REVIEW. TSCA: COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY DISCHARGE OR SPILLS WHICH PRODUCE A VISIBLE SHEEN ON EITHER SURFACE WATER OR IN WATERWAYS/SEWERS WHICH LEAD TO SURFACE WATER, MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AT (800)424-8802. THIS INFORMATION MAY BE SUBJECT TO THE PROVISIONS OF THE COMMUNITY RIGHT TO KNOW REPORTING REQUIREMENTS (40 CFR 370) OF THE THRESHOLD QUANTITY CRITERIA ARE MET. THIS PRODUCT DOES NOT CONTAIN SECTION 313 REPORTABLE INGREDIENTS.

16 OTHER INFORMATION