



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): FAST ATTACK
 Product Code(s): FA-1, FA-8oz
 Uses: HVAC system sanitizer and related.
 Company: Controlled Release Technologies, Inc.
 Address: 1016 Industry Drive; Shelby, NC 28152; USA
 Telephone Number: (704) 487-0878 Fax Number: (704) 487-0877
 Emergency Telephone Number: ChemTel Inc. 1- (800) 255-3924; + 01 (813) 248-0585 (International)
 Date Issued: March 27, 2015 Date Revised: July 30, 2015

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification: **WARNING**
 Skin Irritation (Category 2)
 Eye Irritation (Category 2B)
 Corrosive to Metals (Category 1)
 Aquatic Chronic Toxicity (Category 2)



GHS Hazard Statements:
 Causes skin irritation
 Causes eye irritation
 May be corrosive to metals
 Toxic to aquatic life with long lasting effects

GHS Precautionary Statements:
Prevention:
 Wash hands/skin thoroughly after handling.
 Wear protective gloves.
 Keep only in original container.
 Avoid release to the environment.

Response:
 If on skin: Wash with plenty of water/soap.
 If skin irritation occurs: Get medical advice/attention.
 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.
 Take off contaminated clothing and wash it before reuse.
 Absorb spillage to prevent material damage.
 Collect spillage.

SECTION 2 HAZARDS IDENTIFICATIONStorage:

Store in corrosive resistant container with a resistant inner liner.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

GHS

Assessment:

Approximately 0.5% of this mixture consists of ingredient(s) of unknown acute toxicity.

Approximately 4% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Water	7732-18-5	231-791-2	> 85%
Alkylphenol ethoxylate	Proprietary	---	1 - 5%
Phosphoric acid	7664-38-2	231-633-2	1 - 5%

Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

- First Aid - Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops.
- First Aid - Skin: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately if irritation or rash develops and/or persists. Wash contaminated clothing before reuse.
- First Aid - Ingestion: If swallowed and feel unwell, call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
- First Aid - Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.
- Important Symptoms / Effects – Acute and Delayed: Tissue redness/irritation, nausea.
- Advice to Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

- Extinguishing Media: Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.
- Specific Hazards: This product is not combustible. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.
- Protective equipment and procedures for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.
- Additional Advice: None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- Spill Procedures: Wipe up spills with an absorbent towel/material and transfer into suitable containers for recovery or disposal. Finally flush area with water.
- Personal Precautions: Wear suitable protective clothing.
- Environmental Precautions: Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

SECTION 7 HANDLING AND STORAGE

- Handling: Wear appropriate personal protection (See Section 8) when handling this material. The work area must be equipped with a safety shower and eye wash station. If exposed to the solution, avoid contact with skin and eyes. Wash thoroughly after handling solution.
- Storage: Keep container(s) tightly closed. Use and store this material at temperatures between 15.5 and 26.7°C (60-80°F) away from moisture, heat, direct sunlight and hot metal surfaces. Keep from freezing. Keep away from any incompatible materials (see Section 10).
- Additional Advice: Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Occupational Exposure Standards: Exposure limits are listed below, if they exist.
- Water: None.
- Alkylphenol ethoxylate: None.
- Phosphoric acid: ACGIH TLV: 1 mg/m³ TWA.
ACGIH: 3 mg/m³ STEL.
UK: 1 mg/m³ TWA.
UK: 2 mg/m³ STEL.
OSHA PEL: 1 mg/m³ TWA.
NIOSH REL: 1 mg/m³ TWA.
NIOSH REL: 3 mg/m³ STEL.
- Engineering Control Measures: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
- Respiratory Protection: A NIOSH certified air purifying respirator may be used under conditions where airborne concentrations are expected to exceed exposure limits.
- Hand Protection: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability).
- Eye Protection: Approved eye protection (safety glasses with side-shields or goggles) to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.
- Body Protection: Impervious clothing should be worn as needed to prevent skin contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical State: Liquid
- Color: Dark brown

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Odor:	Characteristic
Odor Threshold:	Not available.
pH:	1.0
Melting Point/Range (°C/°F):	Not available.
Boiling Point/Range (°C/°F):	100°C / 212°F (water)
Flash Point (PMCC) (°C/°F):	Not flammable.
Evaporation Rate:	Not available.
Flammability / Explosivity Limits in Air (%):	Not available.
Vapor Pressure:	23.8 mmHg (25°C) (water)
Vapor Density (Air = 1):	Not available.
Relative Density:	1 (23.9°C)
Solubility in Water:	Completely soluble.
Partition Coefficient:	Not available.
Autoignition Temperature (°C/°F):	Not available.
Decomposition Temperature (°C/°F):	Not available.
Viscosity:	Not available.
Explosive Properties:	None.
Oxidizing Properties:	None.
Volatile Organic Content (VOC) (g/l):	ca. 20 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Product will not undergo additional reaction.
Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat.
Incompatibilities:	Oxidizing agents, reducing agents, strong bases.
Hazardous Decomposition Products:	Oxides of carbon, oxides of phosphorus, aliphatic and aromatic compounds, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity:	This product is not expected to be appreciably toxic. (Water) No data. (Alkylphenol ethoxylate) Oral LD50 (rat) > 2000 mg/kg; Dermal LD50 (rabbit) 2500 mg/kg (Phosphoric acid) Oral LD50 (rat) 1530 mg/kg; Dermal LD50 (rabbit) 2740 mg/kg; Inhalation LC50 (rabbit) 1.689 mg/l (1 hr)
Skin Corrosion / Irritation:	The product is expected to be irritating to the skin. (Water) No data. (Alkylphenol ethoxylate) Irritating to skin (rabbit). (Phosphoric acid) No data.

SECTION 11 TOXICOLOGICAL INFORMATION

Serious Eye Damage / Irritation:	The product is expected to be irritating to the eyes. (Water) No data. (Alkylphenol ethoxylate) Mildly irritating to eye (rabbit). (Phosphoric acid) Irritating to eyes (rabbit).
Respiratory or Skin Sensitization:	The product is not expected to be dermally sensitizing. (Water) No data. (Alkylphenol ethoxylate) Not dermally sensitizing (guinea pig). (Phosphoric acid) No data.
Mutagenicity:	This product is not expected to be mutagenic. (Water) No data. (Alkylphenol ethoxylate) Not mutagenic (Ames test system). Did not induce structural chromosomal aberrations in human lymphocyte cells and was considered to be non clastogenic in human lymphocytes. (Phosphoric acid) Not genotoxic in Ames testing. Negative in Syrian hamster embryo cells (cell transformation).
Carcinogenicity:	This product is not expected to be carcinogenic. (Water) No data. (Alkylphenol ethoxylate) No data. (Phosphoric acid) No data.
Reproductive / Developmental Toxicity:	This product is not expected to be developmentally harmful. (Water) No data. (Alkylphenol ethoxylate) No data. (Phosphoric acid) No harmful effects on growth or reproduction could be observed at levels of 0.75% of the rats diets.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure:	(Water) No data. (Alkylphenol ethoxylate) No data. (Phosphoric acid) No data.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Repeated Exposure:	(Water) No data. (Alkylphenol ethoxylate) A NOEL of 40 mg/kg was established based on no observable systemic effects in orally-fed rats (90 day study). (Phosphoric acid) No data.
Aspiration Hazard:	This product is not expected to be an aspiration hazard.
Additional Information:	None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity:	This product may be toxic to aquatic species. (Water) No data. (Alkylphenol ethoxylate) LD50 (fathead minnow) 0.323 mg/l/96 hr; LC50 (Daphnia magna) 0.148 mg/l/48 hr. (Phosphoric acid) No data.
Mobility:	(Water) No data. (Alkylphenol ethoxylate) No data. (Phosphoric acid) Infiltrates downward in soil, the rate being greater with lower concentration because of reduced viscosity.
Persistence/Degradability:	(Water) No data. (Alkylphenol ethoxylate) Expected to biodegrade under aerobic conditions. (Phosphoric acid) Phosphates may persist indefinitely.
Bioaccumulation:	(Water) No data. (Alkylphenol ethoxylate) Not bioaccumulative (BCF ranges from 0.8 to 37).

SECTION 12 ECOLOGICAL INFORMATION

(Phosphoric acid) No data.

Other adverse effects: None.

SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions: Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Product Disposal: Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

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 nearest EPA office for guidance.

Container Disposal: Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Puncture plastic containers, then offer for recycling or incinerate, or if allowed by state and local authorities, burn container.

SECTION 14 TRANSPORT INFORMATION

DOT Proper Shipping Name: Phosphoric acid solution

UN Number: UN1805

UN Class: 8

UN Packaging Group: III

Reportable Quantity: 5000 pounds (Phosphoric acid)

Marine Pollutant: This product does not contain a listed marine pollutant; however, this product will meet the criteria of a marine pollutant under the IMDG Code.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Consult current IATA Regulations prior to shipping by air.

SECTION 15 REGULATORY INFORMATION

US Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA): This product has been registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).
EPA Registration Number: 59682-5

US FIFRA Label Information: This chemical (mixture) 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. Following is the hazard information as required on the pesticide label:

SECTION 15 REGULATORY INFORMATION
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DANGER

Corrosive.
 Causes irreversible eye damage and skin burns.
 Maybe fatal if swallowed, absorbed through the skin, or inhaled.
 This pesticide is toxic to fish and aquatic organisms.

US Toxic Substance Control Act:	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian Domestic Substance List:	All components of this product are listed on the Canadian Domestic List.
EU Existing Inventory of Chemical Substances:	All components of this product are in compliance with the inventory listing requirements of the E.U. Existing Inventory of Chemical Substances (EINECS). All components of this product have been pre-listed under REACH.
TSCA Sec.12(b) Export Notification:	This product does not contain a chemical at or above de minimis concentrations which requires reporting.
Canadian WHMIS Classification:	E, D.2.B This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.
Massachusetts Right-To-Know:	This product contains materials subject to disclosure under the Massachusetts' Right-To-Know Law: - Phosphoric acid
New Jersey Right-To-Know:	This product contains materials subject to disclosure under the New Jersey's Right-To-Know Law: - Phosphoric acid (1516)
Pennsylvania Right-To-Know:	This product contains materials subject to disclosure under the Pennsylvania's Right-To-Know Law: - Phosphoric acid
California Proposition 65:	This product contains materials which the State of California has found to cause cancer, birth defects or other reproductive harm: - Ethylene oxide (trace) - Dioxane, 1,4- (trace) - Acetaldehyde (trace)
SARA TITLE III-Section 311/312 Categorization (40 CFR 370):	Immediate (acute) hazard
SARA TITLE III-Section 313 (40 CFR 372):	This product does not contain materials which are listed in Section 313 at or above de minimis concentrations.
CERCLA Hazardous Substance (40 CFR 302)	This product contains materials subject to reporting under CERCLA and Section 304 of EPCRA: - Phosphoric acid (5000 pounds)
Water Hazard Class (WGK):	This product is water-endangering (WGK=2).
Other Chemical Inventories:	Australia (AICS): All components listed. China (IECSC): All components listed. Japan (ENCS): All components listed. Korea (KCI): All components listed. Philippines (PICCS): All components listed.

SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH: 2
 NFPA Rating - FIRE: 0
 NFPA Rating - REACTIVITY: 0
 NFPA Rating - SPECIAL: NONE
 SDS Date Issued: March 27, 2015
 SDS Current Version: 2.0 Version Date: July 30, 2015
 SDS Revision History: v1.0 Initial version.
 v2.0 SDS revised to align with US FIFRA requirements.

Abbreviations:

GHS: Globally Harmonized System of Classification and Labeling of Chemicals
 CAS#: Chemical Abstract Services Number
 ACGIH: American Conference of Governmental Industrial Hygienists
 OSHA: Occupational Safety and Health Administration
 NFPA: National Fire Protection Association
 DOT: US Department of Transportation
 RCRA: US Resource Conservation and Recovery Act
 TLV: Threshold Limit Value
 TWA: Time-Weighted Average
 PEL: Permissible Exposure Limit
 STEL: Short Term Exposure Limit
 WEEL: Workplace Environmental Exposure Levels
 AIHA: American Industrial Hygiene Association
 NTP: National Toxicology Program
 IARC: International Agency for Research on Cancer
 R: Risk
 S: Safety
 LD50: Lethal Dose 50%
 LC50: Lethal Concentration 50%
 EC50: Effective Concentration 50%
 BCF: Bioconcentration Factor
 BOD: Biological Oxygen Demand
 Koc: Soil Organic Carbon Partition Coefficient.
 Tlm: Median Tolerance Limit

Key References: United States National Library of Medicine's TOXNET
 Patty's Toxicology, 5th Edition
 European Commission's Institute for Health and Consumer Protection
 American Conference of Governmental Industrial Hygienists
 International Agency for Research on Cancer
 United States National Toxicology Program
 United States Occupational Safety and Health Administration
 United States Department of Transportation
 Supplier Material Safety Data Sheets

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