

CFP 3375LP

OWNER'S MANUAL & INSTALLATION INSTRUCTIONS

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Approvals







NYC Fire Dept. Certificate of Approval #5903





Issue Date: 09/25/2015 Revision Date: 06/21/23 CF-3100

Installation, Inspection and Maintenance Manual for CFP 3375LP

This unit is assembled with UL listed and Factory Mutual approved components.

The CFP 3375LP is built in accordance with NFPA 17, refer to NFPA 17 for installation, maintenance, and inspection requirements.

WARRANTY 1-Year Limited Warranty

This Automatic Extinguishing Unit is warranted to the original owner to be free of defects in factory workmanship and material, and against loss of pressure, to the extent as noted within this manual that remanufacturing is required, for a period of one (1) year from date of manufacture, provided that it has not been misused, damaged, or initiated.

The foregoing warranty is expressly in lieu of any other warranties, expressed or implied, including, but not limited to, warranties of merchantability or fitness for a particular purpose. Cease Fire® shall not be responsible for any incidental, contingent, or consequential charges or damages.

"What To Do In A Fire Emergency"

If a fire breaks out:

- 1. **Warn Everyone!** Make certain everyone is clear of the area immediately and remains safely outside.
- 2. Call the Fire Department *regardless* of how small the fire seems to be. Post emergency phone numbers by each telephone.
- 3. *Important!* Locate an exit so you can escape in case the fire should get out of control. Keep low to avoid breathing in smoke and heated fumes that can be fatal.

TYPES OF FIRE CLASSIFICATIONS

Per NFPA Standards:

Class Fires - Class A fires occur in ordinary combustible materials, such as; wood, cloth, paper, rubber, and many plastics.

Class B Fires – Class B fires involve flammable liquids, paints, and lacquers.

Class C Fires – Class C fires involve energized electrical equipment where the non-conductivity of the extinguishing media is of importance.

INSTALLATION INSTRUCTIONS

Cease Fire® System Units were tested by UL for Class A, B and C fires. For total flood applications, the area being protected should be a reasonably tight enclosure where combined openings do not exceed one percent of the total surface area square footage.

Cease Fire® LP (Low Profile) System Units must be hung horizontally with the sprinkler deflector pointed downward. The unit is to be used in areas where the temperature falls between -20° and 120° Fahrenheit (-28.9° to 48.89° Celsius). The unit is to be mounted or attached to a secure ceiling, for example, wood, metal, or concrete. Ensure there are no obstructions to the free flow operations of the sprinkler head and disbursement of the extinguishment within the enclosure. Do not mount on suspended ceiling or loose tiles.

The pressure switch on Cease Fire® units is to be installed in accordance with national electrical codes, and any local requirements.

CYLINDER ANCHORING NOTES

- 1. Anchor each end of strut to the building structure as follows:
 - WOOD FRAMING 1/4: DIA x 2" HEX HEAD LAG SCREWS WITH 3/4" O.D. WASHERS CONFORMING TO ANSI/ASME B18.2.1, GRADE 1. DRILL 5/32" PILOT HOLE.
 - STEEL BEAM ¼"-20 SELF TAPPING SHEET METAL SCREWS GRADE 5 HEAT TREATED WITH DRILLING TIP AND LEAD THREADS HARDENED TO ROCKWELL C52 (BEAM SHALL BE 1/8" THICK MINIMUM).
 - **CONCRETE** 3/8" DIA FACTORY MUTUAL APPROVED CONCRETE FASTENER INSTALLED PER MANUFACTURER REQUIREMENTS.
- 2. ANCHOR CEILING FLANGE TO STRUT WITH FOUR ¼" DIA BOLTS (UNISTRUT PART HHCS025075EG) AND STRUT NUTS (UNISTRUT PART 03300-1420). TORQUE BOLTS PER UNISTRUT REQUIREMENTS.
- 3. APPLY TEFLON TAPE TO THREADS, AND SCREW CYLINDER HAND TIGHT TO CEILING FLANGE.

NOTE: TWO 6" (MINIMUM) PIECES OF UNISTRUT P3300 (OR EQUIVALENT) (OMIT WHERE FLANGE CAN ANCHOR DIRECTLY TO BUILDING STRUCTURE) ANCHOR THROUGH UNCUT SLOTS IN STRUT.

COVERAGE

The coverage area for Cease Fire® System Units is determined according to the following table:

Coverage Area – Total Flood Applications Class A, B, and C Fires

CFP 3375LP		
	15 ft. high	
	room	
Max	3375 ft	
Volume, Cubic ft.	1028.7m	
Max	15 ft	
Ceiling Height, ft.	4.57 m	
Max Wall Length, ft	15 ft	
Meters	4.57m	

Each unit installed for total flooding protection shall be attached to the ceiling and centered within the enclosure or portions of the enclosure which it protects.

Coverage Area – Local Application (i.e., Spot Protection) Class A, B, and C Fires (For Indoor Applications Only)

CFP 3375LP			
	6.1 ft. sprinkler	15 ft. sprinkler	
	min height	max height	
Max Area, Square ft.	2.5	2.5	
Square M	0.23	0.23	
Sprinkler Height, ft.	6.1	13.1	
Meters	1.86	3.99	

Each unit installed for local application protection shall be mounted with the sprinkled head at a height above the hazard within the table above and centered above the hazard.

PRESSURE SWITCH SPECIFICATION

The Cease Fire® System Units' pressure switch specifications are as follows:

1. Set Point Range: 2 - 120 PSI (.14 – 8.3 BAR)

2. Set Point Tolerance: +- 1 PSI or 5% (.07 BAR)

3. Max Operating Pressure: 250 PSI (17 BAR)

4. Proof Pressure: 750 PSI (51 BAR)

5. Differential: 8-16%

6. Current Rating: 5 AMP

7. Voltage Rating: 24 Volts DC or 250 Volt AC

8. Media Connection: 1/8" NPT Male Brass

9. Circuit Form: SPST-NO or SPST-NC

10. Electrical Connection: 8-32 Screw Terminals

11. Diaphragm Material: BUNA N

Cease Fire® System Units come standard with a Pressure Switch that is suggested to be used with a Normally Closed wiring scheme that will close on descending pressure at 95 PSI (6.55 BAR). This configuration is designed to give a signal to indicate when the Cease Fire® System Unit has discharged and/or a leak or drop in pressure has occurred.

SPRINKLER HEAD SPECIFICATIONS

The Cease Fire® System Units' sprinkler head specifications are as follows:

1. Sprinkler Nominal Temperature Rating: 155°F (68°C)

2. Sprinkler Temperature Classification: Ordinary

3. Maximum Ambient Temperature: 120°F (48.89°C)

4. Bulb Color: Red

5. Glass bulb fluid temperature rating: -65°F (-55°C)

6. Hydrostatic test: 500 PSI (34.47 BAR)

7. Thread Size: ³/₄" NPT (20 mm BSP)

8. Spring: USA Patent No. 4,167,974

9. Bulb: USA Patent No. 4,796,710

Cease Fire® System Units come standard with a Sprinkler Head that has a Nominal Temperature Rating of 155°F (68°C).

Cease Fire® System Units also have Sprinkler Head options for Nominal Temperature Ratings of 135 °F (57 °C), 175°F (79°C), 200°F (93°C), and 286°F (141°C) for pre-engineered units and 135 °F (57 °C) for automatic units.

OPERATIONS

Automatic Extinguisher Unit – A unit that has no manual means of actuation and discharges extinguishing agent upon thermal actuation is intended for use in a normally unoccupied space and is limited to a single unit covering the protected area. Multiple automatic units may be used in the same protected enclosure provided that each unit is capable of covering the entire enclosure (main/reserve).

Pre-Engineered System – A system that is tested in accordance with the limitations prescribed by the manufacturer for maximum and minimum pipe lengths, accessories, number of fittings, number of types of nozzles and nozzle placement, types of fire risks and their maximum areas, volume or both areas and volumes of protection. When multiple pre-engineered units are protecting the same enclosure, the enclosure shall be divided into sections or modules so that each section contains a unit that does not exceed the area and volume limitations for the unit.

Pre-Engineered Systems with electrical activation are intended to be used with a UL Listed control panel that is compatible with the electric actuator. When used with a control panel, additional detection, notification, and actuation (pull station) devices may be used provided they are compatible with the control panel. Reference the control panel's installation manual for compatibility information.

The Cease Fire® Unit is self-activating. Each unit is designed to discharge automatically by means of a thermal sprinkler head rated at 155°F (68°C). The temperature rating for each sprinkler head is stamped on the star shaped deflector in both Fahrenheit and Celsius measurements. The temperature of the sprinkler head is fixed and must be designated at the time of purchase. When the temperature rise to activate the Cease Fire® unit, the sprinkler head opens automatically and dispenses the entire contents in less than 10 seconds onto the fire and throughout the enclosure being protected. If the unit is equipped with the optional pressure switch, a signal is sent at the time of discharge to activate any remaining pre-engineered units protecting the same enclosure as well as any accessory equipment, such as an alarm. Cease Fire® Pre-Engineered Systems containing 2 or more Fire Suppression units shall be wired in such a way that the units will initiate simultaneously as a total flooding system. It is important to avoid exposure to smoke, vapors, and the fire by-products. Ventilate the area thoroughly before reentry.

Cease Fire® recommends that the empty/discharged unit be immediately replaced.

SPECIFICATIONS

1. Operating Pressure: At 70°F/21°C is 175 PSI (12.07 BAR)

2. Storage Temperature: -20° to 120° F / -28.9° to 48.89° C

- 3. Contents:
 - CF-33 (MAP is the only powder ingredient in excess of 95%, by weight)
 - Vessel test pressure 480 PSI (33.10 BAR)

INSPECTION, MAINTENANCE, AND REMANUFACTURING

All Cease Fire® Units are to be inspected and maintained in accordance with this manual and/or NFPA 17.

INSPECTION

Cease Fire® recommends that a "quick check" be performed monthly, following the procedures outlined below. Minimal technical knowledge is required to perform this inspection.

INSPECTION STEPS:

- a. The unit is in its proper location.
- b. Obstructions have not been placed below or alongside the unit.
- c. The label is clean and intact.
- d. No obvious physical damage or conditions exist that may prevent operations.
- e. Pressure is in operable range (see attached Figure 1, Extinguisher Temperature vs. Pressure Graph).
- f. If any deficiencies are found, corrective action shall be taken immediately.
- g. Personnel making inspections shall keep records for those extinguishing units found to need corrective actions. The report shall be filed with the owner or designated responsible party.

MAINTENANCE

Cease Fire® requires that semi-annual maintenance be conducted in accordance with this manual by a trained person who has undergone the instructions necessary, or, as required, licensed to reliably perform maintenance. The maintenance shall consist of:

- a. Check to see that the hazard has not changed.
- b. Examine the container, sprinkler head, head assembly, any auxiliary equipment including pressure switch, wiring, and signaling devices.
- c. If an examination of the container reveals corrosion or pitting, the unit should be replaced or returned to the factory for testing. If substantial corrosion is observed on the hanger assembly, the hanger assembly should be replaced.
- d. The fixed temperature sensing element needs replacement only after discharge.
- e. When the maintenance of the unit reveals defective parts which could cause an impairment or failure of proper operations, the affected parts shall be replaced.
- f. The maintenance report noting an inspector's initials and license number, with recommendations noted if any, shall be filed with the owner, or with the designated responsible party.
- g. Cease Fire® recommends that alternate protection acceptable to the authority having jurisdiction be provided.

Table 1.1 - Unit Pressures Adjusted for		
Temperature		
Temperature	Pressure	
32°F/0°C	132 PSI (7.9 BAR)	
70°F/21°C	175 PSI (12.1 BAR)	
100°F/38°C	220 PSI (15.2 BAR)	

Table 1.2 - Unit Weights CFP 3375LP		
Weight Type	Value (lbs/Kg)	
Gross Weight	74.7/33.88	
Mechanical Parts	9.6/4.4	
Weight Maximum	77.2/35.02	

REMANUFACTURING

Cease Fire® System Units have a unique blend of patent pending extinguishment agents. These units can be remanufactured only by Cease Fire® and are not to be refilled in the field.

Contact Cease Fire® Corporate for further information.

CLEAN UP AFTER DISCHARGE

Cease Fire® System Units are filled with a Dry Chemical mixture. After discharge, Cease Fire® recommends the following clean up steps:

Dry Chemical/CF33:

Corrosion need not be of concern when accompanied by prompt clean up. For the most part, dry chemical agents can be readily cleaned by wiping and/or vacuuming the exposed materials. Cease Fire® recommends a HEPA Filter vacuum for clean-up.

WARNING - Clean up procedures should be initiated after the fire has been totally extinguished and the area has been ventilated.

TOXICITY INFORMATION UNIT CONTENTS

Cease Fire® CFP Automatic Fire Extinguisher Units contain CF33 Dry Chemical Agent. General information regarding the extinguishers' contents is as follows. Should more detailed information be required, contact Cease Fire® Corporate.

a. Dry Chemical, CF33: Monoammonium Phosphate is considered a non-toxic nuisance dust. CF33 does not possess any toxicological properties, which would require special handling other than good industrial hygiene and safety practices. However, as with any finely divided material, it may produce mild irritation effects, especially when used in an enclosed area. In general, these effects are neither serious nor permanent.

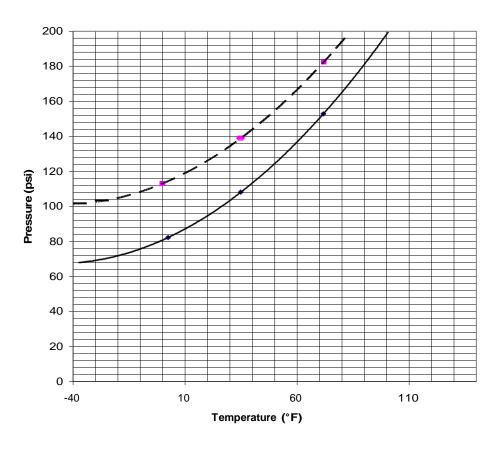
TOXICITY FROM FIRE

"WARNING: The concentrated extinguishing agent when applied to fire can produce toxic by-products. Avoid exposure to vapors, fumes, and products of combustion." The majority of deaths during fires are caused by toxic smoke from fire. Nearly all fuels produce potentially lethal gases, such as carbon monoxide. Other burning materials provide their own unique hazards, for example, Class A fires of burning wood and paper produce "Acrolein", Class B fires of burning polyurethane foam produces "Cyanide", and Class C fires of burning PVC cable insulation creates hydrogen chloride gas. The longer the fire burns, the higher the concentration of these types of gases

BREAKDOWN OF UNITS

STANDARD COMPONENTS	PART NUMBER
ABC Powder	CF-200
Cylinder 69#	CF-551
Coupling	CF-700
5.75" Extension	CF-711FM
O-ring	CF-800
155° F Upright Sprinkler Head	CF-900
Tank Valve	CF-1100
Pressure Switch	CF-1201
Plug	CF-1300
Pressure Gauge	CF-1400
Actuator	CF-1600
Actuator Holder	CF-1702
Hanger Flange Assembly	CF-1900
CFP Series Label	CF-2500
CFP Series Owner's Manual	CF-3500

Temp vs Pressure





 $y = 0.006x^2 + 0.5726x + 80.591$ $y = 0.006x^2 + 0.5311x + 113.03$ $R^2 = 1$

 $R^2 = 1$

Revision Records

Old Revision Number	New Revision Number	Section Number/Page Revised	Description of Revision	Revised by	Date
0.1	0.1	ALL	CFP 3375LP	Cody Kitterman	11/1/2023



SAFETY DATA SHEET

CF-33 Dry Chemical Agent

1. Product and Company Identification

Material Name CF-33 Dry Chemical Agent

Revision Date 06-21-2023

Issue Date 08-01-2003

CAS # Mixture

Product Use Fire Suppression System

Manufacturer / Importer / Supplier

Name Cease Fire, LLC

9321 NE 72nd Ave Suite 12

Vancouver, WA 98665

Phone 360-567-0990

Internet http://www.ceasefire.com

Emergency Phone Number CHEMTREC 800-535-5053 or 360-600-2591

2. Hazards Identification

Emergency overview WARNING

Irritating to eyes and skin

Potential health effects

Routes of exposure Eye contact. Skin contact. Inhalation, Ingestion

Eyes Avoid contact with eyes. Contact with eyes may cause irritation.

 Inhalation Inhalation of dust may cause respiratory irritation.

Ingestion Not a likely route of entry

Target organs Eyes. Respiratory system. Skin.

Signs and symptoms Coughing and irritation of airways.

3. Composition / Information on Ingredients

Hazardous Components	CAS#	Percent
Calcium Carbonate	1317-65-3	<1
Non-hazardous Components	CAS#	Percent
Mono-ammonium Phosphate	7722-76-1	50-77
Ammonium Sulfate	7783-20-2	15-45
Attapulgite Clay	12174-11-7	3-8
Mica-potassium Aluminum Silicate	12001-26-2	1-3
Silicone Oil Methyl Hydrogen	63148-57-2	<1
Polysiloxane		
Amorphous Silica Precipitated	7631-86-9	<1
Synthetic Zeoliteghs		
Yellow 14 Pigment – Diazo Dye	5468-75-7	<1
Additional Additives Unique to		PROPRIETARY
CF-33		

4. First Aid Measures

First aid procedures

Eye contact May cause irritation. Irrigate eyes with water and repeat until pain

free. Seek medical attention if irritation develops, or if vision

changes occur.

Skin contact May cause skin irritation. In case of contact, wash with plenty of

soap and water. Seek medical attention if irritation persists.

Inhalation May cause irritation, along with coughing. If respiratory irritation

or distress occurs, remove victim to fresh air. Give oxygen and artificial respiration if needed. Seek medical attention if irritation

persists.

Ingestion Overdose symptoms may include numbness or tingling in hands or

feet, uneven hear rate, paralysis, feeling faint, chest pain or heavy feeling, pain spreading to the arm or shoulder, nausea, diarrhea, sweating, general ill feeling, or seizure (convulsions). If the victim is conscious and alert, give 2-3 glasses of water to drink. If conscious, do not induce vomiting. Seek immediate medical attention. Do not leave the victim unattended. To prevent

aspiration of swallowed product, lay victim on side with head

lower than waist.

Notes to physician Symptoms may be delayed.

General Advice If you feel unwell, seek medical advice (show the label where

possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this material safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable Properties Not Flammable

Flash Point Not Determined

Suitable Extinguishing Media Non-combustible. Use Extinguishing media suitable for

surrounding conditions.

Hazardous Combustion Products Carbon and sulfur oxides

Explosion Data

Sensitivity to Mechanical Impact Not sensitive

Sensitivity to Static Discharge Not sensitive

Unusual fire/explosion hazardsIn a fire this material may decompose, releasing toxic and irritating

oxides of carbon, sulfur, potassium, ammonia and nitrogen.

Protective Equipment As in any fire, wear self-contained breathing apparatus in

pressure-demand, NIOSH approved or equivalent and full

protective gear.

6. Accidental Release Measures	S
Personal precautions	Avoid inhalation, and contact with skin, eyes, and clothing.
Personal Protective Equipment	Minimum – safety glasses, gloves, and a dust respirator.
Emergency Procedures	N/A
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean Up	Avoid dust formation. Clean up released material using vacuum or wet sweep and shovel to minimize generation of dust. Bag and transfer to properly labeled containers. Ventilate area and was spill site after material pickup is complete.
Environmental Precautions	Prevent material from entering waterways.
Other	If Product is contaminated, use PPE and containment appropriate to the nature of the most toxic chemical/material in the mixture.
7. Handling and Storage	
Personal Precautions	Use appropriate PPE when handling or maintaining equipment and wash thoroughly after handling (see Section 8).
Conditions for Safe Storage/Handling	Keep product in original container or fire suppression system unit. Contents may be under pressure – inspect the fire suppression system unit consistent with product labeling to ensure container integrity.
Incompatible Products	Do not mix with other extinguishing agents, particularly potassium bicarbonate and sodium bicarbonate. Incompatible with strong oxidizing agents and strong acids. Do not store in high humidity. Do not combine with chlorine compounds.

8. Exposure Controls/Personal Protection

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK*	EU BLV
Mono-ammonium	PNOC**	PNOC	PNOC	NA
phosphate	Total dust, 15 mg/m ³	Total dust, 10mg/m ³	Total dust, 4 mg/m ³	
	Respirable fraction, 5	Respirable fraction, 3	Respirable fraction, 1.5	
	mg/m³	mg/m³	mg/m³	
Ammonium Sulfate	PNOC**	PNOC	PNOC	NA
	Total dust, 15 mg/m ³	Total dust, 10mg/m ³	Total dust, 4 mg/m³	
	Respirable fraction, 5	Respirable fraction, 3	Respirable fraction, 1.5	
	mg/m³	mg/m³	mg/m³	
Mica	6 mg/m ³	3 mg/m ³	NR	NA
Attapulgite Clay	PNOC**	PNOC	PNOC	
	Total dust, 15 mg/m ³	Total dust, 10mg/m ³	Total dust, 4 mg/m ³	
	Respirable fraction, 5	Respirable fraction, 3	Respirable fraction, 1.5	
	mg/m³	mg/m³	mg/m³	
Silicone Oil	NR**	NR	NR	NA
Calcium Carbonate	PNOC**	PNOC		NA
	Total dust, 15 mg/m ³	Total dust, 10mg/m ³		-
	Respirable fraction, 5	Respirable fraction, 3		
	mg/m³	mg/m³		
Amorphous Silica	80 mg/m³ % Silica	10 mg/m ³	4 mg/m³	NA
Yellow 14 Pigment	NR	NR	NR	NA

^{*}Germany regulatory limits **PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) *** NR = Not Regulated. All values are 8-hour time weighted average concentrations.

9. Physical and Chemical Properties

Appearance Light yellow powder, finely divided odorless solid.

Specific Gravity (H20 = 1): 1.80

Solubility in Water Soluble Slightly Water Soluble

Melting Point 374°Fahrenheit / 190°Celsius

Freezing Point No information available

Initial Boiling Point No information available

Physical State Crystalline Powder

pH Mixture approximately 4 to 5; NH4H2PO4: 4.2 in 0.2 molar

solution; (NH4)2SO4: 5.5 in 0.1 molar solution

Flash Point None

Auto-ignition Temperature None

Flammability Not Flammable

Flammability/Explosive Limits in Air Upper – No; Lower – No

Explosive Properties None

Oxidizing Properties None

Volatile Component (%vol) Not Applicable.

Evaporation Rate No information available.

Vapor Density No information available.

Viscosity No information available.

10. Stability and Reactivity

Stability Stable under recommended storage and handling conditions

Reactivity No reactivity for these chemicals is expected.

Incompatibles Strong alkalies (bases), magnesium, strong oxidizers, isocyanuric

acids and chlorine compounds.

Conditions to Avoid Storage or handling near incompatibles.

Hazardous Decomposition Products

Heat of fire may release carbon monoxide, carbon dioxide, and

sulfur dioxide. Also, ammonia, oxides of phosphorus and nitrogen oxides may be released during decomposition.

Possibility of Hazardous Reactions Slight

Hazardous Polymerization Does not occur.

11. Toxicological Information

Likely Routes of Exposure Inhalation, skin, and eye contact

Symptoms Immediate

Inhalation Irritation, coughing.

Eyes Irritation

Skin Irritation

Delayed Symptoms appear to be relatively immediate.

Acute Toxicity Relatively non-toxic

Chronic Toxicity

Short-term Exposure None known.

Long-term exposure As with all dusts, pneumoconiosis, or "dust lung" disease, may

result from chronic exposure.

Reproductive ToxicityThis product's ingredients are not known to have reproductive

or teratogenic effects.

12. Ecological Information

Ecotoxicity Harmful effects to aquatic organisms after long-term exposure.

Provides nutrient nitrogen and phosphorus to plant life.

Persistence/Degradability Degrades rapidly in humid/wet environment.

Probability of rapid biodegradation NH4H2PO4 Est: 0.693 (Rapid);

(NH4)2SO4: Est: 0.684 (Rapid)

Anaerobic biodegradation probability NH4H2PO4 Est: 0.398 (Slow);

(NH4)2SO4: Est: 0.398 (Slow)

Bioaccumulation potential Low

Mobility in soil Slow evaporation rate; water soluble; may leach to

groundwater.

Other Adverse Ecological Effects No other known effects at this time

Aquatic Toxicity Values - Environment - Estimates

Chemical Name	Acute (LC50)	EC50
Mono-ammonium phosphate	2,91e+07 mg/L Fish 96 hr; 9.4e+06	6.70e+05 mg/L Gr. Algae 96 hr
	mg/L Daphnid 48hr;	
Ammonium Sulfate	2521 mg/L Fish 96 hr; 1244 mg/L	518 mg/L Gr. Algae 96 hr
	Daphnid 48 hr;	

13. Disposal Considerations

Safe Handling Use appropriate PPE when handling and washing thoroughly after

handling (see Section 8).

Waste Disposal Considerations Dispose in accordance with federal, state, and local regulations.

Contaminated Packaging Dispose in accordance with federal, state, and local regulations.

Notes:

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of it according to state or local laws, which may be more restrictive than federal laws or regulations. Used products may be altered or contaminated, creating different disposal considerations.

14. Transport Information

UN Number NA

UN Proper Shipping Name NA

Transport Hazard Class NA

Packing Group NA

Marine Pollutant NO

IATA Not Regulated

DOT Not Regulated

Notes:

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

Special Precautions for Shipping:

The transportation information above covers the CF-33 Dry Chemical Agent as shipped in bulk containers and not when contained in a dry chemical fire suppression system. If shipped in a stored pressure-type fire suppression system, and pressurized with a non-flammable, non-toxic inert expellant gas, the fire suppression system is considered a hazardous material by the U. S. Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class/division is LIMITED QUANTITY when pressurized to less than 241psig and when shipped via highway or rail. UN Class 2.2 Non-Flammable Gas, when shipping via air. Packing Group — N/A.

15. Regulatory Information

International Inventory Status:

All ingredients are in the following inventories.

Country	Agency	Status
United States of America	TSCA	Yes
Canada	DSL	Yes
Europe	EINECS/ELINCS	Yes
Australia	AICS	Yes
Japan	MITI	Yes
South Korea	KECL	Yes

European Risk and Safety		
Phrases		
EU Classification	XN	Irritant
R Phrases	20	Harmful by inhalation
	22	Harmful if swallowed
S Phrases	36/37/38	Irritating to eyes, respiratory
		system and skin
	22	Do not breath dust
	24/25	Avoid contact with skin and eyes
	26	In case of contact with eyes, rinse
		immediately with plenty of water
		and seek medical advice
_	36	Wear suitable protective clothing
	37/39	Wear suitable gloves and eye
		protection

U.S. Federal Regulatory Information

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) — This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs) or are regulated under TSCA 8(d).

SARA 311/312 Hazard Categories:

Acute Health Hazard Yes

Chronic Health Hazard No

Fire Hazard No

*-Sudden Release of Pressure Hazard Yes

Reactive Hazard No

Clean Water/Clean Air Acts

This product does not contain any substance regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulatory Information

Chemicals in the product are covered under specific State regulations, as denoted below:

Alaska – Designated Toxic and Hazardous Substance: None

California – Permissible Exposure Limits for Chemical Contaminants: None

California Proposition 65:

No component is listed on the California

Proposition 65 list.

Florida – Substance List: Mica Dust

Illinois – Toxic Substance List: None

Kansas – Section 302/303 List: None

Massachusetts – Substance List: Mica Dust

Missouri – Employer Information/Toxic Substance List: None

New Jersey – Right to Know Hazardous Substance List: None

North Dakota – List of Hazardous Chemicals, Reportable Quantities: None

Pennsylvania – Hazardous Substance List: None

^{*-} Only applicable if material is in a pressurized fire suppression system unit.

Rhode Island – Hazardous Substance List: Mica Dust

Texas – Hazardous Substance List: No

West Virginia – Hazardous Substance List: None

Wisconsin – Toxic and Hazardous Substances: None

Other:

Mexico – Grade No component listed.

Canada – WHMIS Hazard Class Ammonium Sulfate listed as not a

dangerous product according to HPR

classification criteria.

16. Other Information

This SDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format.

Issuing Date 01-August-2003

Revision Date 21-June-2023

Revision Notes None

The Information herein is given in good faith but no warranty, expressed or implied, is made.