



MATERIAL SAFETY DATA SHEET- CLEAN AGENT FIRE EXTINGUISHER- FK-5-1-12

1. Product and Company Identification

Material name	Clean Agent Fire Extinguisher
Other Name	FK-5-1-12 Clean Agent Fire Extinguisher
Version #	0
Revision Date	03.04.2021
Product use	Fire extinguishing agent for use on electrical and flammable liquids & substance.
Manufacturer / Importer / Supplier	
Name	CEASEFIRE INDUSTRIES PRIVATE LTD
Address	E-6, Industrial Area, Selagui, Dehradun, Uttarakhand, India - 248197
Phone	+91-120-7154114
Internet	http://www.ceasefireworld.com/
Emergency Phone Number	+91-120-7154114

2. Hazards Identification

Classification of the substance or mixture	Hazardous to the aquatic environment, long-term (chronic) Category 3
Label Elements	
Symbols/Pictograms	None
Signal word	None
Hazard statements	H412 - Harmful to aquatic life with long lasting effects
Precautionary statements	P273 - Avoid release to the environment P501 - Dispose of contents/ container to an approved waste disposal plant
Other hazards	No information available

3. Composition / Information on Ingredients

Product name- Perfluoro (2-methyl-3-pentanone)

Chemical Name	CAS No	Weight-%
3-Pentanone, 1,1,1,2,2,4,5,5,5-nonafluoro-4-(trifluoromethyl)-	756-13-8	>= 99



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4. First Aid Measures

First aid procedures	
General advice	Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Administer oxygen if breathing is difficult. Get medical advice/attention if you feel unwell.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
Eye contact	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.
Ingestion	Not an expected route of exposure. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	No information available.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

5. Fire Fighting Measures

Extinguishing media	
Suitable extinguishing media	The substance can be used as extinguishing agent. Wear suitable respiratory equipment to protect from harmful gases caused by thermal decomposition.
Unsuitable extinguishing media	No information available.
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating and toxic gases and vapors, such as carbon monoxide, carbon dioxide, hydrogen fluoride.
Protective equipment and precautions for	Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water



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firefighters	spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.
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6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Environmental precautions	Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for containment and cleaning up	Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

7. Handling and Storage

Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, flame and other sources of ignition. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.



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8. Exposure Controls/Personal Protection

Control parameters	
Exposure limits	No data available
Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Remove all sources of ignition.
Individual protection measures, such as personal protective equipment	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Wear protective gloves.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.

9. Physical & Chemical Properties

Information on basic physical and chemical properties	
Appearance	Liquid
Color	Colorless
Odor	Faint odor
Odor threshold	Not determined
pH	Not determined
Melting point/freezing point	-108.0 °C
Boiling point / boiling range	49.2 °C
Flammability (solid, gas)	Not flammable
Flammability limit in air	Not determined
Flash point	Not determined
Auto ignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Solubility(ies)	Practically insoluble in water
Partition coefficient (LogPow)	Not determined
Vapor pressure	0.3260 bar (20 °C)
Density	1.60 g/mL
Relative density	Not determined
Vapor density	11.6
Evaporation rate	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined
Other information	No information available



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10.Stability & Reactivity

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	No information available.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, hydrogen fluoride.

11.Toxicological Information

Acute toxicity			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
3-Pentanone, 1,1,1,2,2,4,5,5,5-nonafluoro-4-(trifluoromethyl)- (CAS #: 756-13-8)	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 98 658 ppm (Rat) 4 h

Skin corrosion/irritation	Non-irritating to the skin.
Serious eye damage/eye irritation	No eye irritation.
Sensitization	No sensitization responses were observed.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

12.Ecological Information

Ecotoxicity			
Chemical name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
3-Pentanone, 1,1,1,2,2,4,5,5,5-nonafluoro-4-(trifluoromethyl)- (CAS #: 756-13-8)	0.6 mg/L 96h Pseudokirchneriella subcapitata	> 1 070 mg/L 96h Pimephales promelas	> 1 080 mg/L 48h Daphnia magna

Persistence and degradability	Not readily biodegradable.
Bioaccumulation	BCF = 1.2 - 4.8
Mobility	No information available.
Other adverse effects	No information available.



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13. Disposal Considerations

Waste treatment methods	
Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transport Information

DOT

Basic shipping requirements:

UN Proper shipping name	FK-5-1-12
Proper shipping name	Fire extinguishers
Hazard class	2.2
Packaging group	II
ERG number	126





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15.Regulatory Information

International inventories

Component	AICS	DSL/ NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	TSCA
3-Pentanone, 1,1,1,2,2,4,5,5,5- nonafluoro-4- (trifluoromethyl)- 756-13-8 (>= 99)	X	X	X	X	X	X	-	X

"-" Not Listed

"X" Listed

16.Other Information

In accordance with good practices of personal cleanliness and hygiene handle with the care and avoid unnecessary contact with this product.

This information is being supplied to you under OSHA Hazard Communication Standard 29 CFR 1910.1200 and is offered in good faith as typical values and not as a product specification. The Information contained herein is based on the data available to us and is believed to be true and accurate.

No warranty expressed or implied regarding the accuracy of this data. The hazards connected with the use of the material or the results to be obtained from the use thereof are made.

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