

MATERIAL SAFETY DATA SHEET (MSDS)

Section 1. PRODUCT & COMPANY IDENTIFICATION:

Trade Name SAFEGUARD FF-3% (Type 3) (FROST FOAM)

Chemical ClassificationN/ACAS NumberMixtureHazchem NumberN/A

Application & use Fire Fighting Foam Concentrate specially designed for protection of crops

form frost.

Manufacturer SAFEGUARD FIRE PROTECTIONS PVT. LTD., B-3, Mangolpuri,

Industrial Area, Phase -II, New Delhi- 110034 (India), Mob: +91

9818272647

Emergency phone no. for information & supply +91 9818272647

Section 2. INGREDIENT - COMPOSITION INFORMATION:

MAJOR INGREDIENTS	CAS.No.
1. Protein hydrolysate	100085-61-8
2. Solvent	34590-94-8
4. Stabiliser	102-71-6
5. Bio surfactants	Mixture
5. Water	7732-18-5

Section 3. HAZARD IDENTIFICATION:

Flammability		Corrosive Material	Little o	corrosive to metals like
LEL %v	N/A		MS	, Bronze, Aluminum
UEL %v	N/A			
TDG Flammability	N/A	Organic Peroxide		No
Explosion Sensitivity to impact	None	Autoignition Tempera	ture °C	N/A
Flammable Material	No	Hazardous Polymeriza	tion	Will not occur
Oxidizer	No	Explosive Material		No
Flash Point	No flash	Pyrophoric Material		No
Explosion Sensitivity to	None	Others		N/A
Static Electricity				
Combustible Liquid	No			
Hazardous Combustion Products: Not known. However oxides of carbon, nitrogen and sulfur may be formed during use for				
extinction of fire.				
NFPA Hazard Signals	Health	Flammability	Stability	Special
	1	0	0	N/A

EMERGENCY OVERVIEW:

EMERGENCI OVERVIEW.		
FIRE		
Fire Extinguishing Media	Material is itself a fire extinguishing agent	
Special Procedures	None	
Unusual Hazard	None	
EXPOSURE		
User guidelines	Avoid getting chemicals on you or in you. Cause eye-irritation and may cause skin irritation. Swallowing large amount of chemicals may cause injury or irritation	
SPILLS		
Steps to be taken	Stop leak. Collect spilled concentrates. Rinse the affected area with plenty of water until it no longer foams. Care should be taken to avoid slip hazard.	

Section 4. FIRST AID MEASURES:

Flush eyes with water at least for 15 minutes. Remove contaminated clothing. Wash skin with ample water several times. If ingested, have victim drink water and obtain medical attention immediately.

Section 5. FIRE FIGHTING MEASURES:

Fire Extinguishing Media	Material is itself a fire	TDG Flammability	NA
	extinguishing agent		
Unusual Hazard	None	Explosion Sensitivity to impact	None



Section 6. ACCIDENTAL RELEASE MEASURES:

Stop leak. Use appropriate protective equipment during cleanup. Collect spilled concentrates. Rinse the affected area with plenty of water until it no longer foams. Care should be taken to avoid slip hazard. Disposal should be made in accordance with federal, state and local regulations.

Section 7. HANDLING & STORAGE:

Handling: Avoid getting chemicals on you or in you. Wash hands after handling chemicals. Don't eat or drink while handling chemicals.

Storage: NO Special conditions are required for safe storage. Store in original container. As much as possible keep from being washed into surface water.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Avoid getting chemicals on you or in you. Use tightly sealed safety glass or goggles for eye protection, use PVC/Nitrile or butyl rubber gloves, apron and rubber boots for skin protection.

Section 9. PHYSICAL & CHEMICAL PROPERTIES:

Physical State Odour	Liquid Characteristic	Vapour Density (Air=1) Specific gravity (Water=1)	Data not available 1.0-1.12 at 20±1°C
Appearance Boiling point/Range	Pale yellow to brown 100°C (Initial)	Vapour Pressure @35°C,mm Hg	Data not available
Freezing point	Below (-)10°C	Solubility in water @30°C	100% Soluble
		pН	6.5-8.5 at 20±1°C

Section 10. STABILITY & REACTIVITY:

Chemical Stability Incompatibility with other material	Stable Avoid use of product on burning metals, electrically energized
meomparionity with other material	equipment and contact with water reactive material
Reactivity	None
Hazardous Reaction Products	Not known

Section 11. TOXICOLOGICAL INFORMATION

Effects of exposure/Symptoms	Cause eye-irritation and may cause skin irritation. Swallowing large amount of chemicals may cause injury or irritation
Permissible Exposure Limit, LD ₅₀	>6gm/Kg body wt. of rat (oral)

Section 12. ECOLOGICAL INFORMATION;

This product is an ecologically inert material. It does not contain ozone depleting substances and is not expected to exert an eco-toxic effect or bio-accumulated in the food chain.

Section 13. DISPOSAL CONSIDERATION:

Prevent discharge foam/foam solution to waterways without treatment. Waste disposal should be made in accordance with central, state and local regulations. Waste may be incinerated or disposed of by treatment at a permitted facility only with permission or as advised by competitive authority.

Section 14. TRANSPORT INFORMATION

Department of Transportation (DOT): Not classified. **Section 15. REGULATORY INFORMATION**

Shipping Name	N/A
Shipping Code/Label	N/A
Hazardous waste I.D. No	N/A

Section 16. OTHER INFORMATION

KEY

CAS : Chemical Abstracts Service
DOT : Department of Transportation
NFPA : National Fire Protection Association
TDG : Transportation of dangerous goods.

UEL : Upper exposure limit LEL : Lower exposure limit.

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.