

SECTION 1 – PRODUCT & COMPANY IDENTIFICATION

Product Identification	ETI FIRE FIGHTING AGENT GREEN-FOAM 6% - FLOURINE FREE		
Application & Use	ETI FIRE FIGHTING AGENT GREEN-FOAM 6 % - FLOURINE FREE is mixed with water to provide an effective fire fighting agent for ETI FIRE SUPPESSION SYSTEMS		
Manufacturer Address	PT ETI FIRE SYSTEMS Jl. Magelang – Kopeng Km 11 Tegalrejo Magelang – Central Java 56192 Indonesia Phone : +62 293 314 8990 FAX : +62 293 314 8991 Email : info@etifiresystems.com Website : www.etifiresystems.com		
Product Description	Mixture of Hydrocarbon Surfactant, Stabiliser & Solvent		

SECTION 2 – COMPOSITION

INGREDIENT	CONCENTRATION %	CAS NO.	ACGIH T Health Class
Solvent	10 – 20	112-21-1	Xi R 36
Proprietary mixture Hydrocarbon	15 – 30	Proprietary	Xi R 36, 37, 38
Surfactant	0 – 2	102-71-6	
Stabiliser	50 – 65	7732-18-5	
Water			

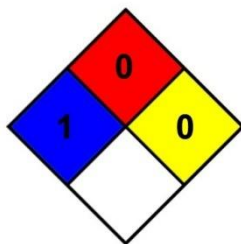
SECTION 3 – HAZARD IDENTIFIATION

Flammability	
LEL %v	: N/A
UEL %v	: N/A
TDG Flammability	: N/A
Explosion Sensitivity to impact	: None
Flammable Material	: No
Oxidizer	: No
Flash Point	: No Flash
Explosion Sensitivity to Static	: None
Electricity	
Combustible Liquid	: No
Corrosive Material	: None
Organic Peroxide	: No
Auto ignition	: N/A
Temperature °C	
Hazardous Polymerization	: Will not occur
Explosive Material	: No
Pyrophoric Material	: No
Others	: N/A

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 1
- Flammability 0
- Stability 0
- Special N/A



EMERGENCY 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. May cause mild eye-irritation and skin irritation. Swallowing large amount of chemicals may cause injury or irritation
SPILLS	
Steps to be taken	Stop leak. Collect spilled concentrates.

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 extinguishing agent
Unusual Hazard	: None
Flammability	: N/A
LEL %v	: N/A
UEL %v	: N/A
TDG Flammability	: N/A
Explosion Sensitivity to impact	: None
Flammable Material	: No
Flash Point	: No Flash

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 AND 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 CONTROL & 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	Liquid	Vapour Density (Air = 1)	Data not available
Odour	Characteristic	Specific gravity (Water = 1)	1.00 – 1.04 at 27 ± 5 °C
Appearance	Transparent	Vapour Pressure @35 °C, mm Hg	Data not available
Boiling Point / Range	100 °C (Initial)	Solubility in water @30 °C	100% Soluble
Freezing Point	Below (-) 5 °C	pH	7.0 – 8.0 at at 27 ± 5 °C

SECTION 10 – REACTIVITY & STABILITY

Chemical Stability	Stable
Incompatibility with other material	Avoid use and contact with water reactive material
Reactivity	None
Hazardous Reaction Products	Not Know

SECTION 11 – TOXICOLOGICAL INFORMATION & HEALTH EFFECT

Effects of Exposure / Symptoms	May cause mild eye-irritation and skin irritation. Swallowing large amount of chemicals may cause injury or irritation.
Permissible Exposure Limit, LD ₅₀	4 gm/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

Not classified as dangerous or hazardous for transport under UN, IMO, ADR / RID and IATA / ICAO.

SECTION 15 – REGULATORY INFORMATION

Label for supply	None required
UK regulatory references	Health and Safety at work Act 1974 Chemical (Hazard Information & Packaging for Supply) Regulation 1994 / Amendment Regulations 1996
EC Directives	Substances Directive 67/548/EEC as amended by 69/81/EEC, 70/189/EEC, 73/146/EEC, 75/409/EEC, 79/831/EEC General Preparations Directive 88379/ECC
Statutory Instrument	Chemical (Hazard Information & Packaging for Supply) Regulation 1994 / Amendment Regulations 1996
Approved Code of Practice	Classification and Labeling of Substances and Preparations Dangerous for Supply
Guidance Notes	Occupational Exposure Limits EH40/96
Transportation of Dangerous Goods (TDG) Information	Not required as per ADR / RID / IMDG, IATA & 49 CFR

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

Information First issue in document format to Australian National Occupation Health and Safety Commission Code of practice – 2nd Edition NOHSC 2010 (2003), 27 November 2019.

Disclaimer

This document has been compiled by ETI Fire Systems to serve as the manufacturer’s material Safety Data Sheet (MSDS). It is based on information concerning the product which has been provided to ETI by other manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. While ETI has taken all due care to include accurate and up-to-date information in this MSDS, ETI in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.