

MATERIAL SAFETY DATA SHEET

FEM-12 SC LIQUID

PRODUCT NAME

1. Identification

Name of the product: FEM 12 SC

Recommended use: FIRE EXTINGUISHING MEDIA

Producer:

Manufactured for: TLI Group Ltd, 35 Kennedy Dr., Carver Massachusetts, 02330 U.S.A.

Telephone no. 508-866-9825

Emergency no. 508-523-6732

2. Hazard(s) identification

Classification:

NON-HAZARDOUS, NON-REGULATED

Labelling:

Symbol: NONE

Signal word: NONE

Hazard statement:

Precautionary statements:

Wear protective gloves and eye/face protection.

Store in cool/well-ventilated place.

3. Composition / Information on ingredients

Chemical identity: SALT MIXTURE

Common name: SALT MIXTURE

Impurities: None

4. First-aid measures

Inhalation:

Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, give artificial respiration.

Skin contact:

Wash the contaminated area with soap and water. Remove contaminated clothing and wash before reuse. If irritation develops, get medical attention.

Eye contact:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. IF irritation persists Get medical attention.

Ingestion:

If swallowed, induce vomiting. Seek medical attention.

5. Firefighting measures

Specific hazards in case of fire: None are known.

Special protective equipment and precaution for fire fighters: For fires in enclosed areas, wear self-contained breathing apparatus. Do not inhale combustion gases.

6. Accidental release measures**Personal precautions:**

Do not eat, drink while cleaning up.

Environmental precautions:

none known.

Methods and materials for containment and cleaning up:

flush down drains in accordance with local authorities.

7. Handling and storage**Precautions for safe handling:**

Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists/vapors.

Conditions for safe storage, including incompatibilities:

Store at temperatures between +5 and +40°C. Store only in the original container.

8. Exposure controls / personal protection**Information on the system design:**

use in properly ventilated area.

Exposure Limits:

Component Name (CAS-No.)	Reference	TWA		STEL	
		ppm	mg/m3	ppm	mg/m3
	UK OEL	nk	nk	--	--
none known	German MAK	nk	nk	--	--

Ventilation:

Use in well-ventilated area with local exhaust.

Respiratory protection:

Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

Eye protection:

Safety glasses with side shields are a part of good industrial hygiene.

Skin protection:

If prolonged or repeated skin contact is likely, neoprene gloves should be worn. Good personal hygiene practices should always be followed.

9. Physical and chemical properties

Physical state: LIQUID

Color: CLEAR

Odor: clean,

Odor threshold: Not available

pH-value: 6

Melting point: Not available

Freezing Point: 0 C

Initial boiling point: NA

Flash point: - >300°C DIN 51755

Evaporation rate: NA

Flammability (solid, gas): Not applicable

Explosion limits: lower limit = not applicable

Vapour pressure: NA

Vapour density: Not available

Relative density: 1.01 g/cm³ at 20°C

Solubility: NOT APPLICABLE

Partition coefficient: Log Kow = na

Auto-ignition temperature: Not available

Decomposition temperature: Not available

10. Stability and reactivity

Chemical stability: No decomposition, if used according to specifications.

Possibility of hazardous reactions: None are known.

Conditions to avoid: OXIDIZERS

Materials to avoid: oxidizers .

Hazardous decomposition products: None are known.

11. Toxicological information

Acute Toxicity:

Test	Results	Basis
Oral Toxicity (Rats)	Not Classified	Based on Ingredients
Dermal Toxicity (Rats)	Not Classified	Based on Ingredients
Inhalation Toxicity, Vapor (Rats)	Not Classified	Based on Testing of Similar Materials
Eye Irritation (Rabbits)	Not Classified	Based on Testing of Similar Materials
Dermal Irritation (Rabbits)	Not Classified	Based on Ingredients

Summary Comments:

Sub chronic/Chronic Toxicity:

Test	Results	Comments
Dermal Sensitization (Guinea Pig)	Not Classified	Product Test Data

Summary Comments: prolonged exposure may cause skin irritation.

12. Ecological information

Persistence and degradability: this product is biodegradable.

Bio-accumulative potential: There is no evidence to suggest bioaccumulation will occur.

Mobility: Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

Aquatic Toxicity:

Test	Results	Comments
Acute Toxicity	Acute Category 5:	Product Test Data

13. Disposal considerations

Waste Disposal:

The product is suitable for processing at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

Recommended European waste code (EWC): not known

14. Transport information

UN-number: NON-REGULATED, NON-HAZARDOUS

UN proper shipping name: NON-REGULATED

Transport hazard class:

Packing group: II

Marine Pollutant: No

15. Regulatory information

Inventory Status:

All components are on TSCA, EINECS/ELINCS, AICS, and DSL.

U.S. Regulations:

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

SARA (311/312) HAZARD CATEGORIES:

FIRE, ACUTE

SARA 313: This product does not any SARA 313 Toxic Release Chemicals.

Chemical Name	CAS Number	Concentration
[REDACTED]	[REDACTED]	0%

The following product components are cited on the lists below:

Chemical Name	CAS Number	List Citations
none	[REDACTED]	NJ RTK, TSCA 12(b) Prop. 65, NJ RTK

16. Other information

Abbreviations and acronyms:

UK OES = United Kingdom Occupational Exposure Standards

German MAK = Germany Maximum Allowable Concentration

MSDS Preparation date: SEPTEMBER 9, 2014

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