

MATERIAL SAFETY DATA SHEET

THERMOFIGHT FR/707/H1 - FLAME RETARDANT (COMPONENT A – RESIN)

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name:	Thermofight FR/707/H1 (Component A – Resin)	Code:	FR/707/H1
Synonym:	Not available	Validation Date:	29.04.2025
Trade Name:	Thermofight FR/707/H1 (Component A – Resin)	Print Date:	29.04.2025
Material Uses:	Electro Insulating Resin	Responsible Name:	J Friedrich
Manufacturer:	Elite Chemical Industries (Pty) Ltd 23 Barium Street Alrode, Ext 7 South Africa Tel: +27 11 864 4620 Email: info@elitechemical.co.za	In Case of Emergency:	+ 27 83 287 2929 (Business hours) + 27 83 287 2929 (After hours)

Section 2. Composition, Information on Ingredients

Substance/Preparation: Preparation

Ingredient Name	CAS Number	%	EC Number	EU/SABS 0265 Classification
Polyether	25791-96-2	20%	1272/2008	Xi: R20/22, R36/37/38, R42/43
Polyester Mixture	68937-40-6	8%		
Butadiene Polymer	69102-90-5	15%	-	R20/22, R36/37/38
Alumina Trihydroxide	21645-51-2	53%	-	
Auxiliary Product	14808-60-7	2.5%	-	S16/25/26/28/29/36/37/44
Accelerator	77-58-7	0.5%	-	Xi: R20/22, R36/37/38
Pigments / Fillers (Iron Oxide Red)	1309-37-1	1%	-	
See Section 16 for the full text of the R Phrases declared above				

* Occupational Exposure Limit(s), if available, are listed in section 8

Section 3. Hazardous Identification

The preparation is classified as not dangerous according to Directive 1999/45/EC and its amendments.

Classification:	No dangerous ingredients according to REACH-Regulations (EC) No. 1907/2006.
Human health hazards:	N/A
Environmental Hazards:	N/A

See Section 11 for more detailed information on health effects and symptoms.

Section 4. First Aid Measures

Eye Contact:	In cases of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact:	Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms appear.
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if symptoms persist.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
Notes to Physician:	No specific treatment, treat symptomatically.
See Section 11 for more detailed information on health effects and symptoms.	

Section 5. Fire Fighting Measures

Flammability of the Product:	Not flammable
Auto-ignition Temperature:	Not available
Flash Points:	> 200°C
Flammable Limits:	Not available
Products of Combustion:	These products are carbon oxides (CO, CO ₂).
Fire Hazards in Presence of Various Substances:	Not flammable in presence of open flame, sparks, and static discharge, of heat.
Explosion Hazards in Presence of Various Substances:	Non identified
Fire Fighting Media and Instructions:	In case of fire, use water spray (fog), foam, dry chemical, or Carbon dioxide (CO ₂).
Special protective Equipment for fire-fighters:	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Special Remarks on Fire Hazards:	No additional remark.
Special Remarks on Explosion Hazards:	No additional remark.

Section 6. Accidental Release Measures

Personal precautions:	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all firefighting procedures (Section 5).
Environmental Precautions and Clean-up Methods:	Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information. If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

Section 7. Handling and Storage

Handling:	Wash thoroughly after handling. Use suitable protective equipment (Section 8).
Storage:	Keep container tightly closed. Keep container in a cool, well-ventilated area.
Packaging materials Recommended:	Use original container.

Section 8. Exposure Controls, Personal Protection

Exposure Controls

Occupational exposure

Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Respiratory protection:	A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate.
Hand protection:	Rubber gloves. Neoprene gloves.
Eye protection:	Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes.
Skin protection:	Additional body garments should be used based upon the task being performed (e.g. sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Appropriate techniques should be used to remove potentially contaminated clothing.

Personal protective Equipment (Pictograms):



Occupational exposure limits:

Ingredient Name:	Occupational Exposure Limits
	N/A

Section 9. Physical and Chemical Properties

Physical State and

Appearance:	Liquid
Colour:	Red oxide
Odour:	Nearly odourless
Taste:	Not available
Molecular Weight:	Not applicable
Molecular Formula:	Not applicable
pH:	Not applicable
Boiling/Condensation Point:	Not available
Melting/Freezing Point:	Not available
Critical Temperature:	Not available
Specific Gravity:	1.40 – 1.45 g/cm ³
Vapour Pressure:	Not available
Vapour Density:	Not available
Volatility:	Not available
Odour Threshold:	Not available
Evaporation Rate:	Not available
VOC:	Not available
Viscosity / 25°C:	9 500 – 10 000 mPa.s
LogK_{ow}:	The product is insoluble in water and octanol.
Ionicity (in Water):	Not available
Dispersion Properties:	Is not dispersed in cold water, hot water.
Solubility:	Insoluble in cold water, hot water, hardly soluble in methanol, diethyl ether, n-octanol.
Physical Chemical Comments:	No additional remark.

Section 10. Stability and Reactivity

Stability and Reactivity:	The product is stable
Conditions of Instability:	None identified.
Incompatibility with Various Substances:	Reactive with acids.
Hazardous Decomposition Products:	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...)
Hazardous Polymerization:	Will not occur.

Section 11. Toxicological Information

Potential Acute Health Effects

Inhalation:	No specific hazard
Ingestion:	Ingestion may cause gastrointestinal irritation and diarrhoea.
Skin contact:	Irritating to skin. May cause sensitisation by skin contact.
Eye contact:	Irritating to eyes.

Acute toxicity

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
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Potential Chronic Health Effects

Acute toxicity, oral

Polyether polyol
LD50 rat, male/female: >2 500 mg/kg
Method: OECD Test Guideline 423
Studies of a comparable product.

Acute toxicity, dermal

Polyether polyol
LD50 rat, male/female: >2 000 mg/kg
Method: OECD Test Guideline 402
Studies of a comparable product.

Acute toxicity, inhalation

Polyether polyol
Not relevant route of exposure

Primary skin irritation

Polyether polyol
Species: rabbit
Result: slight irritant
Classification: No skin irritation
Method: OECD Test Guideline 404
Studies of a comparable product.

Primary mucosae irritation

Polyether polyol
Eye effect:

Species: rabbit
Result: slight irritant
Classification: No eye irritation
Method: OECD Test Guideline 405
Studies of a comparable product.

Effect on the respiratory tract:
No data available.

Section 11. Toxicological Information (continue/...)

Sensitisation

Polyether polyol

Skin sensitisation according to Buehler (epicutaneous test):

Species: Guinea pig

Result: negative

Classification: Does not cause skin sensitization.

Method: OECD Test Guideline 406

Studies of a comparable product.

Ingredient Name

Carcinogenic Effects

Mutagenic Effects

Developmental toxicity

Impairs fertility

No evidence of risk in humans

Over-exposure signs/symptoms

Target Organs: Contains material, which causes damage to the following organs: cardiovascular system, skin, eye, lens or cornea.

Other adverse effects: None identified.

Section 12. Ecological Information

Ecotoxicity Data

Ingredient Name

Species

Period

Result

Toxicity

Acute Fish Toxicity

Polyether polyol

LC50 > 1 000 mg/l

Test type: semi-static test

Species: Leuciscus idus (Golden orfe)

Exposure duration: 96 h

Method: OECD Test Guideline 203

Studies of a comparable product.

BOD and COD:

Not available.

Biodegradable/OECD:

Not available.

Mobility:

Not available.

Products of Degradation:

These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂...).

Toxicity of the Products of Biodegradation:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The products of biodegradation are less toxic than the original product.

Special Remarks on the

Products of Biodegradation:

Not expected to bioaccumulate.

Section 13. Disposal Considerations

Waste Disposal:

Incinerate in a licensed high temperature hazardous waste incinerator. Dispose of according to all federal state and local applicable regulations.

Waste Stream:

Not applicable.

Waste Classification:

Not applicable.

European Waste Catalogue

(EWC):

Not applicable.

Consult your local or regional authorities.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
ADR/RID/SABS 0228 Class	Not regulated					
IMDG Class	Not regulated					
IATA-DGR Class	Not regulated					

Section 15. Regulatory Information

EU / SABS 0265 Classification

Hazard symbol(s):



Risk phrases:

Irritant

R20/22- Harmful by inhalation and if swallowed.

R36/37/38- Irritating to eyes, respiratory system, and skin.

R42/R43- May cause sensitisation by inhalation and skin contact.

Safety phrases:

S16- Keep away from sources of ignition – No Smoking

S25- Avoid contact with eyes.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29- Do not empty into drains

S36- Wear suitable protective clothing.

S37- Wear suitable gloves.

S46- If swallowed, seek medical advice immediately and show this container or label.

Contains:

Product Use:

Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amended and the intended use.

- Industrial applications.

Section 16. Other information

Full text of R phrases referred to in Section 2 and 3:

R20/22- Harmful by inhalation and if swallowed.

R36/37/38- Irritating to eyes, respiratory system and skin.

R42-

R43- May cause sensitisation by skin contact.

Full text of classifications referred to in Sections 2 and 3:

Xi- Irritant

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