

PYROCOM TS ECO STICK

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1. IDENTIFICATION

Trade Name: Pyrocom TS TURBO
Usage: Solid wetting and foaming agent for treatment of extinguishing fire (use only with appropriate application devices from AquaEco fire fighting program)
Importer/Distributor: Pyrocom of America, Inc.
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410-845-8272 / 425-696-6029
Producer: Pyrocom a.s. (VAT: CZ26738872)
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2. COMPOSITION OF PRODUCT

Product Type: Solid mixture of surfactants and polyethylene glycol

Components:

	CAS No.	ES No. (EINECS)	Classification	R-phrases
Polyethylene glycol	25322-8-3	--	--	--
Anion active surfactants	--	--	--	--
Fluorinated amphoteric tenzides	--	--	--	R10, 52/53
Fluorinated copolymer	--	--	--	R10, 36/38

3. HAZARDS IDENTIFICATION

Classification: No subject to classification.
Labeling: No hazard symbol
Health: Contains small amounts of a substance that may cause sensitivity by skin contact. The amount of this substance is too little to classify this product as allergy-causing agent.
Environment: The product does not represent any risk to environment. It is readily biodegradable. This product contains small amounts of one or more organic fluorochemicals that have the potential to resist degradation and remain in the environment.

4. FIRST AID MEASURES

General Advice: Immediately remove the patient from the source of exposure.
General first aid: Move to fresh air, keep the patient warm and at rest.
If unconscious: loosen tight clothing, place in stable position on one side. Give artificial respiration if breathing has stopped. Give oxygen if breathing is difficult. First aid personnel should have special training in the administration of oxygen. If heart stops, provide cardiac massage. Contact a physician if necessary and show this MSDS.
Inhalation: Move to fresh air, keep the patient warm and at rest. Loosen tight clothing, place in stable position on one side. Contact physician if necessary and show this MSDS. May cause mild irritation.
Skin Contact: Wash skin thoroughly with soap and water.
May cause mild irritation with frequent/ prolonged contact. Get medical advice if irritation persists.

- Eye contact:** Flush immediately with lukewarm, running water for at least 15 minutes, also under the eyelids. May cause irritation. Get medical advice if irritation persists.
- Ingestion:** Get medical advice immediately. Rinse mouth with water. If affected person is fully conscious, give one to two glasses of water to drink.
- Additional Advice:** Symptomatic treatment.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water, water mist, powder, CO₂

Media:

Fire Fighting Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin and eyes.

Environmental Precautions: Avoid release of product in sewerage. Product causes great decrease of water surface tension. Inform appropriate authorities if large amounts are involved.

Methods for cleanup: Pick up particles of product, after cleaning flush away traces with water. Spillage of solution may be flushed away with copious amounts of water.

7. HANDLING AND STORAGE

Safe Handling: Wash hands with soap and water after work and before breaks. Avoid contact with skin and eyes.

Safe Storage: Store in original closed packing at temperatures between -4 and +95°F (-20 and +35°C)

Specific Usage: Product is used as filling (cartridge) for AquaEco extinguishing devices. Protect cartridge against sunlight and temperature above 95°F (35°C)
Solution can be used as an extinguishing agent with excellent wetting and good foaming.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Reduction of Exposure

Personal of Exposure: Wash hands after using the product. The personal protective equipment has to be adjusted to the fire situation.

Respiratory Protection: Not necessary under normal conditions.

Eye Protection: Not necessary under normal conditions.

Hand Protection: Not necessary under normal conditions.

Skin and Body Protection: Not necessary under normal conditions.

Environmental Protection: Water solution of readily biodegradable surfactants.

9. General

Form: (at 68°F/20°C): Solid

Colour: Orange/Pink

Odour: Pleasant, tenzides-like

Physical and Chemical Data

pH (at 68°F/20°C): 6.0 - 8.5

Melting Point: Higher than 140°F (60°C)

Boiling Point:	N/A
Flash Point	Higher than 212°F (100°C)
Flammability:	Flammable
Self-Ignition Ability:	None
Upper Explosion Limit:	None
Lower Explosion Limit:	None
Oxidizing Ability:	Not strong oxidizing agent. Non-corrosive to glass and plastics.
Vapour Tension:	N/A
Density (at 68°F/20°C)	1.15 g.cm ⁻³
Solubility in Water:	100% soluble
Solubility in Fats:	N/A
Partition Co-Efficient	N/A
n-Octanol/Water:	
Other Data:	Surface tension of water solution (1 g.l ⁻¹) = less than 24 mN.m ⁻¹

10. STABILITY AND REACTIVITY

Conditions to Avoid:	Temperatures over +95°F (+35°C). Product may lose shape suitable for application device.
Materials to Avoid:	None
Hazardous	Fire causes formation of carbon monoxide (CO) and carbon dioxide (CO ₂).
Decomposition Products:	Sulphur oxides (SO _x). Thermal decomposition of solution prepared for use is not expected to represent any risk.

11. TOXICOLOGICAL INFORMATION

Dangerous Effects to Health After Exposure: Skin, eye or digestive tract irritation is not chronic.

Long Term, Acute and Chronic Effects after Short and Long Term Exposure

Sensitization:	None
Narcotic Effects:	None
Cancerogenity:	None
Mutagenity:	None
Reproduction Toxicity:	None
Inhalation:	May cause sickness.
Ingestion:	May cause sickness and irritation.
Skin Contact:	May cause irritation.
Eye Contact:	May cause irritation.
Subchronic-Chronic Toxicity:	Skin, eye or digestive tract irritation is not chronic.
Additional Data:	None

12. ECOLOGICAL INFORMATION

Acute Toxicity Test:	<u>Fish-Acute Toxicity Test</u> (according to EN ISO 7346-2 OECD 203)
	Poecilia reticulata: 96hLC50=12 mg.l ⁻¹ 96hLC50>10 mg.l ⁻¹
	<u>Acute Immobilization Test</u> (according to ISO 6341, OECD 202 Part 1)
	Daphnia magna: 48hEC50=26 mg.l ⁻¹
	Alga Growth Inhibition Test (according to OECD 201 & EN 28692)
	Scenedesmus subspicatus: 72h1C50 _μ =243 mg.l ⁻¹ 72h1C50A = 135 mg.l ⁻¹
Mobility:	Soluble in water.
Remnants and Degradability:	DOC test: (according to OECD Test 301A): Water solution of agent is within 28 days from 92% decomposed (more than 70% is decomposed within 10 days).

Bioaccumulation: N/A
 Other Data: None

13. DISPOSAL CONSIDERATIONS

Product: Not classified as hazardous waste. To be disposed of in accordance with national and local legislations - tenzides, soaps.
 Contaminated: Can be placed into communal waste.
 Packaging:
 Other Data: None

14. TRANSPORT INFORMATION

Not classified as dangerous.

15. REGULATORY INFORMATION

Labeling

Hazard Symbol: None
 R-phrases: None
 S-phrases: None
 Special EU Restriction: None

Legal Regulation

Zakon 356/203 Sb., (Chemical substances and chemical formulations law)
 Vhylaska 232/2004 Sb. (Classification, packaging & labeling of chemicals law)
 Zakon 188/2004 Sb., (Waste management law)
 Zakon 94/2004 Sb. (Packaging & labeling law)

16. OTHER INFORMATION

Text of R and S

Phrases:

R10 Flammable
 R35/38 Irritating to eyes and skin.
 R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty of quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

