

# PYROCOM TS ECO STICK

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## 1. IDENTIFICATION

**Trade Name:** Pyrocom TS ECO  
**Usage:** Solid wetting agent for treatment of extinguishing fire (use only with appropriate application devices from AquaEco fire fighting program)  
**Importer/Distributor:** Pyrocom of America, Inc.  
28475 Owens Branch Rd., Salisbury, MD 21801  
410-845-8272 / 425-696-6029  
**Producer:** Pyrocom a.s. (VAT: CZ26738872)  
Novodvorska 1010/14, 14201 Praha 4, Czech Republic  
+420 261-344 000 / +420 261 344 004  
**Emergency Phone Number:** +420 224 919 293 Toxicological Information-Czech Republic  
+420 224 915 402 Industrial Diseases

## 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	--	--	--	--

## 3. HAZARDS IDENTIFICATION

**Classification:** No subject to classification.  
**Labeling:** No hazard symbol  
**Health:** Contains substance that may cause decrease of skin. 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.

## 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, CO<sub>2</sub>  
**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)

## **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:** Solid  
**Colour:** Light Green  
**Odour:** Pleasant, tenzides-like

### **Physical and Chemical Data**

pH (at 68°F): 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: None

Limit:	
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)	1.18 g.cm <sup>-3</sup>
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 <sup>-1</sup> ) = less than 40 mN.m <sup>-1</sup>

## **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 <sub>2</sub> ).
Decomposition	Sulphur oxides (SO <sub>x</sub> ). Thermal decomposition of solution prepared for use is not expected to represent any risk.
Products:	

## **11. TOXICOLOGICAL INFORMATION**

Dangerous Effects to Skin, eye or digestive tract irritation is not chronic.

Health After Exposure:

### **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	Skin, eye or digestive tract irritation is not chronic.
Toxicity:	
Additional Data:	None

## **12. ECOLOGICAL INFORMATION**

Acute Toxicity Test:	<b><u>Fish-Acute Toxicity Test</u></b> (according to EN ISO 7346-2 OECD 203)
Poecilia reticulata:	96hLC50=12 mg.l <sup>-1</sup> 96hLC50>10 mg.l <sup>-1</sup>
	<b><u>Acute Immobilization Test</u></b> (according to ISO 6341, OECD 202 Part 1)
Daphnia magna:	48hEC50=27 mg.l <sup>-1</sup>
Alga Growth Inhibition Test (according to OECD 201 & EN 28692)	
Scenedesmus subspicatus:	72h1C50μ=538 mg.l <sup>-1</sup> 72h1C50A = 151 mg.l <sup>-1</sup>
Mobility:	Soluble in water.
Remnants and Degradability:	DOC test: (according to OECD Test 301A): Water solution of agent is within 28 days from 94% 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 Packaging:	Can be placed into communal waste.
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**

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.

