



STROYOPTTORG LLC  
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**SAFETY DATASHEET**  
**INTUMESCENT FIRE RETARDANT**  
**for metal structures**  
**INVAMAT 678**  
**TU 20.30.11.120-002-37166468-2017**

**1. Manufacturer: StroyOptTorg LLC**

**2. Hazard types**

Carcinogenicity - 2  
Chronic toxicity for water - 3  
H 351 Presumably causes cancer  
H 412 Harmful to aquatic life with long lasting effects

**3. Precautions.**

P 202 before carrying out any action read and understand all safety instructions  
P 281 use personal protective equipment  
P 273 avoid releases to the environment  
P 308 + P 318 in case of exposure or suspicion: contact for consultation/ medical care.

**Other hazardous factors.**

valuation results:  
PBT (sustainable bioaccumulative toxic substance); vPvB (very stable bioaccumulative) PBT - not applicable  
vPvB - not applicable



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#### **4. First aid**

General information: there is no need for special measures. After inhalation: put the patient in a calm position in fresh air.

After contact with skin: wash immediately with plenty of water and soap, rinse well.

After contact with eyes: rinse opened eye with running water for several minutes. If symptoms persist, consult a physician.

#### **5. Fire fighting measures.**

Extinguishing media: CO<sub>2</sub>, powder extinguishing agent or water spray of fine spraying. In case of a big fire, alcohol-resistant foam should be used.

Special hazards.

In case of fire, the following can be released: - Carbon monoxide CO<sub>2</sub>

- Carbon dioxide

Protective equipment for firefighters.

- Use of an airway protection device.

- Ensure adequate ventilation.

#### **6. Personal safety measures.**

Ensure adequate ventilation.

Wear protective clothing.

Especially dangerous of slipping due to leaked/spilled product.

Environment protection.

Do not allow to enter the sewage system/surface or ground water.

Localization and cleaning.

Collect mechanically.

#### **7. Handling and storage.**

Precautions for safe handling: No special measures required.

Instructions for protection against fires and explosions: no need for any special measures.

Store only in the original container at a temperature of +5 °C to +30 °C.

Protect from frost.



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### **8. Product exposure limit and control/PPE**

The product does not contain any significant amounts of substances with the limit values that need to be monitored in the workplace.

When handling the product, follow standard precautionary measures.

Avoid contact with eyes and skin.

Wash hands before breaks and at the end of work.

In case of insufficient ventilation, use a device to protect the respiratory organs.

Protect hands with protective gloves EN 374

The glove material must be resistant to the effects of the product and not let it inside (nitrile rubber).

Eye protection.

Tightly fitting glasses. EN 166 + EN 170

Body protection.

Protective overalls

### **9. Physical and chemical properties.**

Form - pasty

Color - white

Odor - soft

Boiling point - 100 °C.

Ignition temperature - 390 °C

The product is not self-igniting and explosive.

Density at 20 °C - 1.2 g/cm<sup>3</sup> Completely mixed with water.

Dynamic viscosity at 20 °C 60,000 cP

Organic solvent content - 2.3%

### **10. Toxicology**

Lethal doses

Oral (through the mouth) -1850 mg/kg

Dermal (through the skin) -> 2 000 mg/kg

Inhalation (through inhalation) - 5.22 mg/kg

Primary irritant effect.

On the skin - no

On the eyes - no

When handled and used for its intended purpose, the product does not have a harmful effect on health.



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**11. Disposal.**

Disposal together with household waste is not allowed. Do not allow to enter drains.

Dispose of in accordance with the requirements of SES operating in the region.

**12. Transport information.**

Transport in accordance with the rules of carriage of goods, appropriate for this type of transport.

Does not require special transportation conditions.