

## SAFETY DATA SHEET

FLAME STAL® FIREPROOF SOLVENT

### Section 1: Identification of the mixture and identification of the company.

**1.1 Product ID:** FLAME STAL® FIREPROOF SOLVENT

**1.2 Relevant identified uses of the mixture and uses advised against:** Fire-resistant paint in a consisting of vinyl-acrylic resin, intumescing under the influence of high temperatures. For fire protection of steel structures. For professional use.

**1.3 Details of the supplier of the safety data sheet:**

PIROSYSTEM Sp. z o.o.

ul. Ogrodnicza 3a

83-021 Wiślina

tel. +48 58 342 23 85 (w godz. 8:00 – 16:00)

fax +48 58 342 24 00

e-mail: [biuro@pirosystem.pl](mailto:biuro@pirosystem.pl)

**1.4 Emergency telephone number**

tel. +48 58 342 23 85 (8:00 – 16:00)

See section 16 for emergency numbers for territorial toxicological information.

### Section 2: Identification of threats

**2.1 Classification of the mixture:** The mixture was classified as hazardous.

Classification according to Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labeling and packaging (CLP)

Health hazards:

Harmful effect in contact with skin, Category 4, H312

Harmful if inhaled, Category 4, H332

Irritation in contact with skin, category 2, H315

Physical threats:

Flammable liquid and vapor, Category 3, H226

Environmental hazard:

Harmful to aquatic life with long lasting effects, Cat 3, H412

**2.2 Label elements:**

Hazard pictograms:



Signal word: Warning

Hazard statements:

H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H373 - May cause damage to organs through prolonged or repeated exposure

H336 - May cause drowsiness or dizziness

H361d - Suspected of damaging the unborn child

H312 - Harmful in contact with skin

## SAFETY DATA SHEET

### FLAME STAL® FIREPROOF SOLVENT

**H315 - Causes skin irritation**  
**H332 - Harmful if inhaled**  
**H226 - Flammable liquid and vapor**  
**H412 - Harmful to aquatic life with long lasting effects**

#### Phrases specifying the conditions of safe use:

**P210 - Keep away from heat / sparks / open flames / hot surfaces - no smoking.**  
**P243 - Take precautionary measures against static discharge.**  
**P202 - Do not use until all safety precautions have been read and understood.**  
**P303 + P361 + P353 - In case of contact with skin (or hair): remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.**  
**P301 + P310- In case of ingestion: immediately contact a research center or a doctor.**  
**P331- DO NOT INDUCE VOMITING.**  
**P260 - Do not breathe dust / fume / mist / vapors / spray.**  
**P261 - Avoid breathing mist / vapors / spray.**  
**P271 - Use only outdoors or in a well-ventilated area.**  
**P273 - Avoid release to the environment.**  
**P280 - Wear protective gloves / protective clothing.**  
**P302 + P352 - In case of skin contact: Wash with plenty of soap and water.**  
**P304 + P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.**  
**P312 - Call a POISON CENTER or doctor / physician if you feel unwell.**  
**P332 + P313 - If skin irritation occurs: Get medical advice / attention**  
**P501 - Dispose of contents / container in accordance with regional regulations.**

#### 2.3 Other hazards: None.

The mixture does not meet the PBT and vPvB criteria in accordance with Annex XIII to Regulation (EC) No 1907/2006.

### Section 3: Composition and information on ingredients

#### 3.2 Mixture

Description of the mixture: mixture of organic solvents, fillers and auxiliary compounds

Hazardous ingredients:

| Name            | Numbers                         | Register numbers REACH: | Classification 1272/2008   | % weight |
|-----------------|---------------------------------|-------------------------|--|----------|
| Xylene          | CAS: 1330-20-7<br>WE: 215-535-7 | 01-2119488216-32-xxxx   | Flam. Liq. 3, H226<br>Acute Tox. 4; H312<br>Acute Tox. 4; H332<br>Skin Irrit. 2, H315            | 1-2      |
| Toluene         | CAS: 108-99-3<br>WE: 203-625-9  | 01-2119471310-51-xxxx   | Repr. 2, H361d<br>Asp. Tox.1 , H304<br>Skin Irrut. 2, H315<br>STOT RE 2, H373<br>STOT SE 3, H336 | 10-15    |
| n-Butyl acetate | CAS: 123-86-4<br>WE: 204-658-1  | 01-2119485493-29-xxxx   | Flam. Liq. 3, H226<br>STOT SE 3, H336  | 3-6      |

For the full text of the hazard statements, see section 16.

### Section 4: First aid

#### 4.1 Description of first aid

**Exposure ways:** through the respiratory tract, through contact with the skin, with the eyes and through the digestive tract.

#### In case of inhalation:

In the event of dizziness or nausea, remove the sufferer to fresh air, if there is no quick improvement, consult a doctor..

## **SAFETY DATA SHEET**

### FLAME STAL® FIREPROOF SOLVENT

#### **In case of skin contact:**

Take off contaminated clothing. Wash skin with soap and water. In case of burns, apply a sterile dressing. In case of persistent skin irritation, consult a physician.

#### **In case of eye contact:**

Remove contact lenses. Rinse opened eye for several minutes with plenty of water. Seek medical attention immediately.

#### **In case of ingestion:**

Do not induce vomiting. Rinse out mouth and drink plenty of water. If symptoms persist, consult a doctor.

#### **4.2 The most important acute and delayed symptoms and effects of exposure**

Lack.

#### **4.3. Indication of any immediate medical aid and special treatment of the victim**

The doctor decides about the procedure after assessing the condition of the injured person.

### **Section 5: Fire-fighting measures**

#### **5.1. Extinguishing media**

##### **Proper extinguishing media:**

Carbon dioxide, foam, powder or water spray.

##### **Extinguishing media that must not be used:**

Water under high pressure.

#### **5.2. Special hazards related to the mixture**

The mixture is flammable. Harmful gases may be released when the temperature is elevated.

#### **5.3. Information for fire brigades**

When extinguishing a fire, use self-circulating breathing devices and full body protective clothing.

### **Section 6: Proceedings in case of unintentional release to the environment**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid skin contact. Do not inhale vapors. Use protective gloves made of butyl rubber, nitrile rubber or neoprene. If there is a need to repair the damage, put on gas-tight protective clothing and a breathing apparatus isolating the respiratory tract.

#### **6.2 Environmental precautions**

Prevent from spreading and entering drains and water reservoirs. Contain or absorb leakage with sand, earth or other suitable material. Notify the fire brigade if the substance has entered a water tank, sewer, or has been spilled onto soil and vegetation.

#### **6.3 Methods and materials preventing the spread of contamination and used for removing contamination**

Collect the preparation mechanically. Absorb with liquid-absorbent materials (e.g. sand, earth, universal binders, silica, sawdust, etc.). Removal should be carried out by specialized services - fire brigades.

#### **6.4 Reference to other sections**

Personal protection equipment - section 8.

Disposal considerations - section 13.

### **Section 7: Handling and storage of the mixture**

#### **7.1 Precautions for safe handling**

Apply the generally applicable rules for handling chemicals. Take off any clothes soiled with the agent immediately. Do not inhale vapors, avoid direct contact with skin and eyes. Do not eat, drink or smoke while working. Wash hands before breaks at work and after finishing work. Take care of proper ventilation.

Keep away from sources of heat and fire.

#### **7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, ventilated place, in the closed original packaging. Protect against direct sunlight and temperatures above 30 ° C. Do not store together with strong oxidants, strong coffee and hydroxides.

## SAFETY DATA SHEET

### FLAME STAL® FIREPROOF SOLVENT

#### 7.3 Specific end use (s)

Lack.

## Section 8: Exposure controls and personal protection

### 8.1 Control parameters

Hygienic standards for the working environment according to the Regulation of the Minister of Labor and Social Policy of June 2014 on the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2014, item 817).

| Ingredients with controlled limit values depending on the workplace: |                            |
|--|----------------------------|
| Xylene   | NDS: 100 mg/m <sup>3</sup> |

### 8.2. Exposure controls

#### Appropriate engineering controls:

Adequate ventilation at workplaces.

#### Individual protection measures:

**Eye and face protection:** Avoid contact with the eyes.

**Skin protection:** Work clothes made of dense fabric. Avoid skin contact.

**Hand protection:** Use protective gloves made of butyl rubber, nitrile rubber or neoprene. Wash hands after using the product. To avoid drying the skin, use a barrier cream.

**Respiratory protection:** Use in well-ventilated rooms.

#### Environmental exposure controls:

Do not allow large amounts of the product to get into groundwater, sewage system, sewage or soil. Observe the relevant regulations when discharging diluted product solutions into the sewage system.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                              |                               |
|------------------------------|-------------------------------|
| <b>Look:</b>                 | thick, white liquid           |
| <b>Smell:</b>                | characteristic                |
| <b>PH value at 20 °C:</b>    | not applicable                |
| <b>Boiling point:</b>        | 110,6°C                       |
| <b>Melting temperature:</b>  | not applicable                |
| <b>Flash-point:</b>          | 4,4°C                         |
| <b>Combustibility:</b>       | yes                           |
| <b>Explosive properties:</b> | no                            |
| <b>Oxidizing properties:</b> | no                            |
| <b>Vapor pressure 20°C:</b>  | 29 hPa                        |
| <b>Density at 20°C:</b>      | 1,42 g/cm <sup>3</sup>        |
| <b>Solubility:</b>           | it does not dissolve in water |
| <b>Viscosity:</b>            | approximately 24,000 mPas     |
| <b>Other properties:</b>     | Lack                          |

### 9.2 Other informations

Lack.

## **SAFETY DATA SHEET**

### FLAME STAL® FIREPROOF SOLVENT

#### **Section 10: Stability and reactivity**

##### **10.1 Reactivity**

The mixture is not chemically reactive under normal conditions.

##### **10.2. Chemical stability**

The mixture is chemically stable during normal use and proper storage.

##### **10.3. Możliwość występowania niebezpiecznych reakcji**

Lack.

##### **10.4. Conditions to Avoid**

Avoid direct sunlight and temperatures above 30 ° C.

##### **10.5. Incompatible materials**

Avoid contact with strong oxidants, strong acids and hydroxides.

##### **10.6. Hazardous decomposition products**

It does not decompose when used as directed.

#### **Section 11: Toxicological information**

##### **11.1 Information on toxicological effects**

###### **Acute toxicity:**

Xylene: LD<sub>50</sub> (rat, orally): 4300 mg/kg,

**Exposure routes:** respiratory tract, skin contact, eye contact, digestive tract.

###### **Possible effects resulting from exposure to the mixture via:**

**Respiratory tract:** Irritation of the respiratory mucosa may occur.

**Skin contact:** May cause skin irritation.

**Contact with eyes:** Irritation and tearing may occur.

**Food tract:** Irritation of the mouth, esophagus and gastrointestinal mucosa may occur.

#### **Section 12: Ecological information**

##### **12.1 Toxicity**

There are no experimental data on the mixture.

##### **12.2 Persistence and degradability**

There are no experimental data on the mixture.

##### **12.3 Bioaccumulative potential**

No data.

##### **12.4 Mobility in soil**

The mixture is miscible with water and may spread in the aquatic environment and soil.

##### **12.5 Results of PBT and vPvB assessment**

The mixture does not contain any substances that are assessed to be PBT or vPvB

##### **12.6. Other harmful effects**

No data.

#### **Section 13: Disposal of waste**

##### **13.1 Waste neutralization methods**

Disposal should be carried out by specialized companies, the method of waste disposal should be agreed with the relevant department of environmental protection.

In accordance with the Act of December 14, 2012 on waste (Journal of Laws of 2013, No. 0, item 21), and the Regulation of the Minister of the Environment of December 9, 2014 on the waste catalog (Journal of Laws of 2014, item 1923).

The waste code has been determined on the basis of the criteria included in the applicable regulations. If the mixture was used in any further processes, the end user should define the resulting waste and assign the appropriate code.

## **SAFETY DATA SHEET**

### **FLAME STAL® FIREPROOF SOLVENT**

Residues of the mixture, waste code: 08 01 11 \* (waste paints and varnishes containing organic solvents or other hazardous substances).

#### **Packaging:**

Packaging with the remains of the mixture, waste code: 15 01 10 \* (Packaging containing residues of hazardous substances or contaminated with them)

The packaging is emptied of mixture residues, waste code: 15 01 04 (metal packaging).

## **Section 14: Transport information**

#### **Transportation ADR/RID/ADN/ADNR**

Proper shipping name: PAINT

Material identification number: **UN 1263**

Class: **3**

Classification code: **F1**

Transport category: **1**

Label: **3**

Packing group: **III**

Hazard identification number: **30**

#### **Maritime transport IMO/IMDG:**

Proper shipping name: PAINT

Material identification number: **UN 1263**

Class: **3**

Packing group: **III**

Label: **3**

#### **Air Transport ICAO/IATA**

Proper shipping name: PAINT

Material identification number: **UN 1263**

Class: **3**

Label: **3**

## **Section 15: Regulatory Information**

### **15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture**

- Regulation (WE) no 1907/2006 The European Parliament and the Council from 18.12.06 on Registration, Evaluation, Authorization, Restriction of Chemicals (REACH) and establishing the European Chemicals Agency, amending Directive 1999/45 / EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769 / EEC and Commission Directive 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC (OJ L 396 of 30.12.2006, as amended),
- COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH),
- Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC) No. 1907/2006 (Journal of Laws UE L 353 of December 31, 2008, as amended),
- Regulation of the European Parliament and of the Council (EC) No. 689/2008 of 17 June 2008 on the export and import of dangerous chemicals (Journal of Laws UE L 204 of 31.07.2008),
- Act on chemical substances and their mixtures of 25 February 2011 (Journal of Laws 63, item 322, as amended),
- Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and mixtures (Journal of Laws of 2012, item 1018, as amended),

## SAFETY DATA SHEET

### FLAME STAL® FIREPROOF SOLVENT

- Regulation of the Minister of Health of 11 June 2012 on the category of hazardous substances and dangerous mixtures, the packaging of which is equipped with closures that hinder opening by children and a tactile warning of danger (Journal of Laws of 2012, item 688, as amended),
- Regulation of the Minister of Health of 22 May 2012 on the method of marking places, pipelines, containers and tanks for storage or containing dangerous substances or dangerous mixtures (Journal of Laws, item 601),
- Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445)
- The Act of December 14th on waste (Journal of Laws of 2013, No. 0, item 21), Ustawa z dnia 13 czerwca 2013 r. o gospodarce opakowaniami i odpadami opakowaniowymi (DZ.U. 2013, poz. 888),
- Regulation of the Minister of the Environment of 9 December 2014 on the catalog of waste (Journal of Laws of 2014, item 1923),
- Classification of dangerous goods in accordance with the European Agreement on the International Carriage of Dangerous Goods by Road (ADR),
- Regulation of the Ministry of Labor and Social Policy of June 2014 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2014, item 817),
- Regulation of the Minister of Labor and Social Policy of September 26, 1997 on general provisions on health and safety at work (Journal of Laws of 2003, No. 169, item 1650, as amended),
- Regulation of the Minister of Economy of December 21, 2005 on the essential requirements for personal protective equipment (Journal of Laws of 2005, No. 259, item 2173),
- Regulation of the Minister of Health of February 2, 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws of 2011, No. 33, item 166),
- Regulation (EC) No. 648/2004 of the European Parliament and of the Council of March 31, 2004 on detergents, with the amendment of June 25, 2009, Commission Regulation (EC) No. 551/2009, as amended,
- and other legal acts in the scope concerning them.

#### 15.2 Chemical safety assessment

No data.

### Section 16: Other informations

#### Full text of the phrases mentioned in point 3:

H225 - Highly flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H373 - May cause damage to organs through prolonged or repeated exposure  
H336 - May cause drowsiness or dizziness  
H361d - Suspected of damaging the unborn child  
H226 Flammable liquid and vapor  
H312 Harmful in contact with skin  
H315 Causes skin irritation  
H332 Harmful if inhaled  
H410 Very toxic to aquatic life with long lasting effects  
Acute Tox. 4 H312 - Acute dermal toxicity, category 4  
Acute Tox. 4 H332 - Acute inhalation toxicity, category 4  
Aquatic Chronic 1 H410 - Harmful to water, category 1  
Flam. Liq. 2 H225 - Flammable liquid, category 2  
Flam. Liq. 3 H226 - Flammable liquid, category 3  
Skin Irrit. 2 H314 - Skin irritation category 2

**The above phrases refer to ingredients and do not classify the mixture.**

**Version: 1.0**

## **SAFETY DATA SHEET**

### **FLAME STAL® FIREPROOF SOLVENT**

**Attention:**

1. The safety data sheet is provided directly to the distributor of the product, without any assurances or guarantees as to the completeness and detail of any information or recommendations contained therein.
2. The card was prepared on the basis of information obtained from the manufacturer of the preparation and materials from its own database.
3. The information contained in this sheet represents the current state of knowledge and experience concerning the safe use of the product.

**EMERGENCY NUMBERS**

- +4842631 4725 - National Center of Toxicological Information Łódź
- +48 42631 4767 - Institute of Occupational Medicine, Łódź
- +4858 682 0404 - Pomeranian Center of Toxicology Gdańsk
- +4822 619 6654 - Toxicological Information Office Warsaw
- +4861 847 6946 - Toxicological Information Center Poznań
- +4812411 9999 - Toxicological Information Center of Collegium Medicum, Jagiellonian University in Kraków