

# Zenova FP Intumescent Paint

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.  
Issue date: 7/8/2022 Revision date: 7/8/2022 Version: 1.1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : Zenova FP Intumescent Paint

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
Use of the substance/mixture : Fire protection

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Zenova LTD  
101 Kings Road,  
Brentwood, Essex,  
CM14 4DR  
T +44 (0) 1277 288314  
technical@zenovagroup.com - www.zenovagroup.com

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 1277 288314

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302  
Eye Irrit. 2 H319  
Repr. 2 H361f  
EUH208  
EUH211



Full text of hazard classes, H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra

Hazard pictograms (CLP) :    
GHS07 GHS08

Signal word (CLP) : Warning

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|  |  |
|--|--|
| Hazardous ingredients                            | : Ammonium polyphosphate   |
| Hazard statements (CLP)                          | : H302 - Harmful if swallowed.<br>H319 - Causes serious eye irritation.<br>H361f - Suspected of damaging fertility (male reproductive system (testis, sperm)).   |
| Precautionary statements (CLP)                   | : P201 - Obtain special instructions before use.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.<br>P308+P313 - IF exposed or concerned: Get medical advice/attention.<br>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| EUH-statements                                   | : EUH208 - Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone. May produce an allergic reaction.<br>EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.  |
| Unknown acute toxicity (CLP) - SDS               | : 5.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)<br>48.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>5.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))  |
| Unknown hazards to the aquatic environment (CLP) | : Contains 5.22 % of components with unknown hazards to the aquatic environment  |

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]               |
|--|--|---------|---|
| Ammonium polyphosphate   | (CAS-No.) 68333-79-9<br>(EC-No.) 269-789-9   | 20 – 30 | Acute Tox. 4 (Oral), H302<br>(ATE=300 mg/kg bodyweight)<br>Eye Irrit. 2, H319 |
| Titanium Dioxide<br>substance with national workplace exposure limit(s) (GB) | (CAS-No.) 13463-67-7<br>(EC-No.) 236-675-5<br>(EC Index-No.) 022-006-00-2<br>(REACH-no) 01-<br>2119489379-17 | 10 – 20 | Not classified.   |
| Pentaerythritol<br>substance with national workplace exposure limit(s) (GB)  | (CAS-No.) 115-77-5<br>(EC-No.) 204-104-9   | 5 – 10  | Not classified.   |
| Melamine   | (CAS-No.) 108-78-1<br>(EC-No.) 203-615-4   | 5 – 10  | Repr. 2, H361f  |
| Limestone<br>substance with national workplace exposure limit(s) (GB)        | (CAS-No.) 1317-65-3<br>(EC-No.) 215-279-6  | 1 – 5   | Not classified.   |

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Full text of H- and EUH-statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- |                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.                           |
| First-aid measures after skin contact | : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.  |
| First-aid measures after eye contact  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : IF SWALLOWED: Do NOT induce vomiting, Rinse mouth. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.                                  |

#### 4.2. Most important symptoms and effects, both acute and delayed

- |                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract.  |
| Symptoms/effects after skin contact | : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.  |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/effects after ingestion    | : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.   |
| Chronic symptoms                    | : Suspected of damaging fertility (male reproductive system (testis, sperm)).   |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- |                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Use extinguishing media appropriate for surrounding fire. Polyvalent powder extinguishers (ABC powder). |
| Unsuitable extinguishing media | : Do not use water jet. Do not use tap water.   |

#### 5.2. Special hazards arising from the substance or mixture

- |                            |   |
|----------------------------|---|
| Fire hazard                | : Products of combustion may include, and are not limited to: oxides of carbon, irritating vapours.   |
| Reactivity in case of fire | : As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk. |

#### 5.3. Advice for firefighters

- |                                |  |
|--------------------------------|--|
| Protection during firefighting | : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). |
|--------------------------------|--|

### SECTION 6: Accidental release measures

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

- |                                    |  |
|------------------------------------|--|
| General measures                   | : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. |
| 6.1.1. For non-emergency personnel |  |
| 6.1.2. For emergency responders    |  |

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

- |                         |   |
|-------------------------|---|
| For containment         | : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. |
| Methods for cleaning up | : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.  |

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### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. Use only in well ventilated areas. When using do not eat, drink or smoke. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products.
- Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

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

- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store locked up. Store in a dry, cool and well-ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Maximum storage period : 36 months
- Storage temperature : 5 – 35 °C

### 7.3. Specific end use(s)

Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Pentaerythritol (115-77-5)

##### United Kingdom - Occupational Exposure Limits

|                       |  |
|-----------------------|--|
| WEL TWA (OEL TWA) [1] | 10 mg/m <sup>3</sup> (inhalable dust)<br>4 mg/m <sup>3</sup> (respirable dust)             |
| WEL STEL (OEL STEL)   | 20 mg/m <sup>3</sup> (inhalable dust)<br>12 mg/m <sup>3</sup> (calculated-respirable dust) |

#### Titanium Dioxide (13463-67-7)

##### United Kingdom - Occupational Exposure Limits

|                       |   |
|-----------------------|---|
| WEL TWA (OEL TWA) [1] | 10 mg/m <sup>3</sup> (total inhalable)<br>4 mg/m <sup>3</sup> (respirable)                        |
| WEL STEL (OEL STEL)   | 30 mg/m <sup>3</sup> (calculated-total inhalable)<br>12 mg/m <sup>3</sup> (calculated-respirable) |

#### Limestone (1317-65-3)

##### United Kingdom - Occupational Exposure Limits

|                       |   |
|-----------------------|---|
| WEL TWA (OEL TWA) [1] | 10 mg/m <sup>3</sup> (inhalable dust)<br>4 mg/m <sup>3</sup> (respirable dust)                        |
| WEL STEL (OEL STEL)   | 30 mg/m <sup>3</sup> (calculated-inhalable dust)<br>12 mg/m <sup>3</sup> (calculated-respirable dust) |

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Wear suitable gloves

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### Eye protection:

Wear eye/face protection.

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Environmental exposure controls:

Avoid release to the environment.

### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Informa on basic physical and chemical properties

|  |                          |
|--|--------------------------|
| Physical state                             | : Liquid                 |
| Appearance                                 | : Fluid                  |
| Colour                                     | : White                  |
| Odour                                      | : Characteristic         |
| Odour threshold                            | : No data available      |
| pH   | : No data available      |
| Relative evaporation rate (butylacetate=1) | : No data available      |
| Melting point                              | : No data available      |
| Freezing point                             | : No data available      |
| Boiling point                              | : 100 °C                 |
| Flash point                                | : > 60 °C                |
| Auto-ignition temperature                  | : 260 °C                 |
| Decomposition temperature                  | : No data available      |
| Flammability (solid, gas)                  | : Not flammable          |
| Vapour pressure                            | : 2350 Pa                |
| Vapour pressure at 50 °C                   | : 12381 Pa               |
| Relative vapour density at 20 °C           | : No data available      |
| Relative density                           | : 1.441                  |
| Density                                    | : 1441 kg/m <sup>3</sup> |
| Solubility                                 | : No data available      |
| Partition coefficient n-octanol/water      | : No data available      |
| Viscosity, kinematic                       | : No data available      |
| Viscosity, dynamic                         | : No data available      |
| Explosive properties                       | : No data available      |
| Oxidising properties                       | : No data available      |
| Explosive limits                           | : No data available      |

### 9.2. Other information

VOC content : 0.01 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

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### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. Incompatible materials. Radiation. Static electricity.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Organic compounds. irritating vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                          |
|-----------------------------|--------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed.  |
| Acute toxicity (dermal)     | : Not classified.        |
| Acute toxicity (inhalation) | : Not classified.        |
| ATE CLP (oral)              | 1063.83 mg/kg bodyweight |

#### Ammonium polyphosphate (68333-79-9)

|                     |   |
|---------------------|---|
| LD50 oral rat       | 300 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure) |
| LC50 inhalation rat | > 4.85 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method), Guideline: other:EU Method B.52 (Acute Inhalation Toxicity - Acute Toxic Class Method, 2014)  |

#### Pentaerythritol (115-77-5)

|                     |                |
|---------------------|----------------|
| LD50 oral rat       | 19500 mg/kg    |
| LD50 dermal rabbit  | > 10000 mg/kg  |
| LC50 inhalation rat | > 5.15 mg/l/4h |

#### Titanium Dioxide (13463-67-7)

|                     |  |
|---------------------|--|
| LD50 oral rat       | > 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) |
| LC50 inhalation rat | 5.09 mg/l/4h   |

#### Melamine (108-78-1)

|                     |  |
|---------------------|--|
| LD50 oral rat       | 3161 mg/kg   |
| LD50 dermal rabbit  | > 1 g/kg   |
| LC50 inhalation rat | > 5.19 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)) |

|                                    |   |
|------------------------------------|---|
| Unknown acute toxicity (CLP) - SDS | : 5.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)<br>48.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>5.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours)) |
| Skin corrosion/irritation          | : Not classified.   |
| Additional information             | : Based on available data, the classification criteria are not met.   |

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|                                   |   |
|-----------------------------------|---|
| Serious eye damage/irritation     | : Causes serious eye irritation.  |
| Respiratory or skin sensitisation | : Not classified.   |
| Additional information            | : Based on available data, the classification criteria are not met.           |
| Germ cell mutagenicity            | : Not classified.   |
| Additional information            | : Based on available data, the classification criteria are not met.           |
| Carcinogenicity                   | : Not classified.   |
| Additional information            | : Based on available data, the classification criteria are not met.           |
| Reproductive toxicity             | : Suspected of damaging fertility (male reproductive system (testis, sperm)). |
| STOT-single exposure              | : Not classified.   |
| Additional information            | : Based on available data, the classification criteria are not met.           |
| STOT-repeated exposure            | : Not classified.   |
| Additional information            | : Based on available data, the classification criteria are not met.           |

### Pentaerythritol (115-77-5)

|                                   |  |
|-----------------------------------|--|
| <b>NOAEL (oral, rat, 90 days)</b> | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other: |
| Aspiration hazard                 | : Not classified.  |
| Additional information            | : Based on available data, the classification criteria are not met.  |
| Other information                 | : Likely routes of exposure: ingestion, inhalation, skin and eye.  |

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : May cause long-term adverse effects in the aquatic environment.               |
| Unknown hazards to the aquatic environment (CLP)          | : Contains 5.22 % of components with unknown hazards to the aquatic environment |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified.   |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified.   |

### Ammonium polyphosphate (68333-79-9)

|                             |   |
|-----------------------------|---|
| <b>LC50 - Fish [1]</b>      | > 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  |
| <b>LC50 - Fish [2]</b>      | 123 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  |
| <b>EC50 - Crustacea [1]</b> | > 100 mg/l Test organisms (species): Daphnia magna  |
| <b>EC50 72h - Algae [1]</b> | > 97.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

### Pentaerythritol (115-77-5)

|                             |   |
|-----------------------------|---|
| <b>LC50 - Fish [1]</b>      | > 100 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])   |
| <b>EC50 - Crustacea [1]</b> | 30477 – 37043 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  |
| <b>EC50 - Crustacea [2]</b> | 3560 mg/l Test organisms (species): Daphnia magna   |
| <b>EC50 72h - Algae [1]</b> | > 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| <b>EC50 72h - Algae [2]</b> | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                       |
| <b>NOEC (chronic)</b>       | 1000 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |

### Titanium Dioxide (13463-67-7)

|   |  |
|---|--|
| <b>LC50 - Fish [1]</b>                    | 155 mg/l Test organisms (species): other:Japanese Medaka   |
| <b>EC50 - Crustacea [1]</b>               | 19.3 mg/l Test organisms (species): Daphnia magna  |
| <b>EC50 - Crustacea [2]</b>               | 27.8 mg/l Test organisms (species): Daphnia magna  |
| <b>EC50 - Other aquatic organisms [1]</b> | > 100 mg/l Test organisms (species):   |
| <b>EC50 72h - Algae [1]</b>               | > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

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|                            |   |
|----------------------------|---|
| LOEC (chronic)             | 5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'           |
| NOEC (chronic)             | ≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'      |
| <b>Melamine (108-78-1)</b> |   |
| LC50 - Fish [1]            | > 3000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)          |
| EC50 - Crustacea [1]       | > 2000 mg/l (Exposure time: 48 h - Species: Daphnia magna)                |
| EC50 96h - Algae [1]       | 940 mg/l (Species: Scenedesmus pannonicus)                                |
| LOEC (chronic)             | > 11 mg/l Test organisms (species): Daphnia magna Duration: '21 d'        |
| NOEC (chronic)             | ≥ 11 mg/l Test organisms (species): Daphnia magna Duration: '21 d'        |
| NOEC chronic fish          | ≥ 5.1 mg/l Test organisms (species): Pimephales promelas Duration: '36 d' |

### 12.2. Persistence and degradability

|                                    |                  |
|------------------------------------|------------------|
| <b>Zenova FP Intumescent Paint</b> |                  |
| Persistence and degradability      | Not established. |

### 12.3. Bioaccumulative potential

|                                    |                  |
|------------------------------------|------------------|
| <b>Zenova FP Intumescent Paint</b> |                  |
| Bioaccumulative potential          | Not established. |

|                                   |           |
|-----------------------------------|-----------|
| <b>Pentaerythritol (115-77-5)</b> |           |
| BCF - Fish [1]                    | 0.3 – 0.6 |

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Melamine (108-78-1)</b>            |                 |
| BCF - Fish [1]                        | 0.38            |
| Partition coefficient n-octanol/water | 1.14 (at 25 °C) |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : No other effects known

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

### 14.1. UN number

UN-No. (ADR) : Not regulated  
UN-No. (IMDG) : Not regulated  
UN-No. (IATA) : Not regulated

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated  
Proper Shipping Name (IMDG) : Not regulated  
Proper Shipping Name (IATA) : Not regulated

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not regulated

#### IMDG

Transport hazard class(es) (IMDG) : Not regulated



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### IATA

Transport hazard class(es) (IATA) : Not regulated

### 14.4. Packing group

Packing group (ADR) : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available.

### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

#### - Overland transport

Not regulated

#### - Transport by sea

Not regulated

#### - Air transport

Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance.  $\geq 0,1\%$  / SCL

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes

| Section | Changed item | Change | Comment                |
|---------|--------------|--------|------------------------|
| 9       | VOC content  | Added  | Version 1.1 (7/8/2022) |

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### Abbreviations and acronyms:

°C – Degrees Celsius  
°F – Degrees Fahrenheit  
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ACGIH – American Conference of Governmental Industrial Hygienists  
ATE – Acute Toxicity Estimate  
BCF – Bioconcentration Factor  
BEI – Biological Exposure Index  
CAS – Chemical Abstracts Service  
CLP – Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures.  
CMR – Carcinogen, Mutagen, Reproductive toxin  
cP – centipoise (unit of dynamic viscosity)  
cSt – centistokes (unit of kinematic viscosity)  
DNEL – Derived No-effect Level  
DMEL – Derived Minimal Effect Level  
EC50 – Half maximal effective concentration  
ECHA – European Chemicals Agency  
EC-No. – European Community number  
EU – European Union  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals  
h – Hours  
IATA – International Air Transport Association  
IC50 – Inhibition concentration  
IDLH – Immediately Dangerous to Life or Health  
IMDG – International Maritime Dangerous Goods  
IOELV – Indicative Occupational Exposure Limit Value  
KIFS – Swedish Chemicals Agency's (KemI's) Code of Statutes  
kPa – kilopascal  
Koc – Adsorption Coefficient  
Kow – Octanol-Water Partition Coefficient  
LC50 – Median Lethal Concentration  
LD50 – Median Lethal Dose  
LOAEL – Lowest Observed Adverse Effect level  
mg/l – Milligram per liter  
mg/kg – Milligram per kilogram  
mg/m<sup>3</sup> – Milligram per cubic meter  
Min – Minutes  
NIOSH – National Institute for Occupational Safety and Health  
NOEC – No Observed Effect Concentration  
NO(A)EL – No Observed (Adverse) Effect Level  
N.O.S. – Not Otherwise Specified  
OEL – Occupational Exposure Limit  
PBT - Persistent, Bioaccumulative and Toxic  
PCN – Poison Centre Notification  
PNEC – Predicted No Effect Concentration  
ppm – Parts per million  
PVC – Polyvinyl chloride  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail  
SDS – Safety Data Sheet  
STEL – Short Term Exposure Limit  
STOT – Specific Target Organ Toxicity  
SVHC – Substance of Very High Concern (CMR, vPvB, PBT)  
TDI – Tolerable Daily Intake  
TLV – Threshold Limit Value  
TWA – Time Weighted Average  
UFI – Unique Formulation Identifier  
UN – United Nations  
vPvB - Very Persistent and Very Bioaccumulative  
WEL – Workplace Exposure Limit  
WGK – Wassergefährdungsklasse – German water quality classification

# Zenova FP Intumescent Paint

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 2 (Dermal)               | Acute toxicity (dermal), Category 2  |
| Acute Tox. 2 (Inhalation)           | Acute toxicity (inhal.), Category 2  |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3  |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |
| Aquatic Acute 1                     | Hazardous to the aquatic environment — Acute Hazard, Category 1  |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment — Chronic Hazard, Category 1  |
| EUH071                              | Corrosive to the respiratory tract.  |
| EUH208                              | Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone. May produce an allergic reaction. |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| H301                                | Toxic if swallowed.  |
| H302                                | Harmful if swallowed.  |
| H310                                | Fatal in contact with skin.  |
| H314                                | Causes severe skin burns and eye damage.   |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.   |
| H318                                | Causes serious eye damage.   |
| H319                                | Causes serious eye irritation.   |
| H330                                | Fatal if inhaled.  |
| H361f                               | Suspected of damaging fertility.   |
| H400                                | Very toxic to aquatic life.  |
| H410                                | Very toxic to aquatic life with long lasting effects.  |
| Repr. 2                             | Reproductive toxicity, Category 2  |
| Skin Corr. 1C                       | Skin corrosion/irritation, Category 1, Sub-Category 1C   |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1A                       | Skin sensitisation, category 1A  |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |       |                    |
|---|-------|--------------------|
| Acute Tox. 4 (Oral)   | H302  | Calculation method |
| Eye Irrit. 2  | H319  | Calculation method |
| Repr. 2   | H361f | Calculation method |
| EUH208  |       | Calculation method |
| EUH211  |       | Calculation method |

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