

Safety Data Sheet

according to Regulation (EC) No 1907/2006

PYRO-SAFE® FLAMMOPLAST KS 1 PYRO-SAFE® FLAMMOPLAST KS 1-W PYRO-SAFE® FLAMMOPLAST KS 3

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After inhalation

Take affected person into fresh air. Consult a physician.
Get medical attention, if respiratory irritation develops or if breathing becomes difficult.

After contact with skin

Remove contaminated soaked clothing immediately.
In case of contact with skin wash off immediately with plenty of water.

After contact with eyes

Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes.
Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials. Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

After ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Consult a physician.

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

Symptoms of eye or skin irritation: burning, redness, swelling

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product itself does not burn. Use fire fighting measures that suit the environment and products stored.
Foam, carbon dioxide (CO₂), dry chemical, water-spray

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

None

5.3. Advice for firefighters

In case of fire, wear suitable respiratory equipment with positive air supply.

Additional information

Remove product from area of fire, or otherwise cool containers with water to avoid pressure being build up due to heat.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes, skin or mucous membrane. Do not breathe vapours and aerosols.
Ensure adequate ventilation, especially in confined areas.
High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge large amounts into the drains or bodies of water. Inform competent authority about release into the sewage, ground or into waters.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

6.4. Reference to other sections

Information for disposal see section 13.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling

No special measures necessary if used correctly.
Do not keep containers unlocked.
Observe the technical data sheet.

Advice on protection against fire and explosion

No special precautions required.

Further information on handling

When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.
Keep only in original container.

Further information on storage conditions

No special storage conditions required.

7.3. Specific end use(s)

Intumescent paint or putty for fire protection systems

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
115-77-5	Pentaerythritol, respirable dust	-	4		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL

8.2. Exposure controls



Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Take the usual precautions when handling with chemicals.
Wash hands before breaks and at the end of workday.
When using do not eat, drink or smoke.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Chemical-resistant gloves (EN 374), Safety gloves for the site (EN420, Cat. 1 or 2)
Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.

Skin protection

Protective clothing

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Respiratory protection

Not required under normal use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Viscous liquid / Pasty
Colour: White / Grey
Odour: Almost odourless

pH-Value: 8.0 - 8.8 (10 % in water)

Changes in the physical state

Melting point: Not applicable
Initial boiling point and boiling range: ~ 100 °C
Sublimation point: Not applicable
Softening point: Not applicable
Flash point: Not applicable
Sustaining combustion: Not sustaining combustion

Flammability

Solid: Not applicable

Explosive properties

Not explosive.

Lower explosion limits: Not applicable
Upper explosion limits: Not applicable
Ignition temperature: Not applicable

Auto-ignition temperature

Solid: No data available

Decomposition temperature: No data available

Oxidizing properties

Not combustible

Vapour pressure: No data available

Density (at 20 °C): 1.2 - 1.37 g/cm³

Water solubility: Soluble

Solubility in other solvents

No data available

Partition coefficient: No data available

Viscosity / kinematic: No data available

Flow time: No data available

Vapour density: No data available

9.2. Other information

Viscosity:

PYRO-SAFE® FLAMMOPLAST KS 1: 8000 – 12500 mPas (20 °C)

PYRO-SAFE® FLAMMOPLAST KS 1-W: 8000 – 12500 mPas (20 °C)

PYRO-SAFE® FLAMMOPLAST KS 3: no data available

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Relative density::

PYRO-SAFE® FLAMMOPLAST KS3: 1.2 - 1.385 g/cm³

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity with the intended use is not associated with any hazards.

10.2. Chemical stability

Chemically stable.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Keep from freezing.

10.5. Incompatible materials

Strong acids., strong bases

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

Further information

Keep only in original container.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

Health injuries are not known or expected under normal use.

Acute toxicity

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Contact with eyes may cause irritation.

Sensitising effects

Contains Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (3:1). May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available.

12.2. Persistence and degradability

Not determined

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12.3. Bioaccumulative potential

Not determined

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

Not determined

12.6. Other adverse effects

Not determined

Further information

Do not release undiluted or in higher quantities into the groundwater, sewerage or waters.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not discharge into the drains/surface waters/ground water. The waste code number must be agreed with the disposer / manufacturer / competent authority. Waste disposal according to local regulations.

Waste disposal number of waste from residues/unused products

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

Cleaning agent: Water

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.

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14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): < 10 %
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

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Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)
IMDG-Code: International Maritime Code for Dangerous Goods
ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association)
GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

Relevant H and EUH statements (number and full text)

EUH208 Contains Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (3:1). May produce an allergic reaction.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal

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warranty regulations.
(n.a. = not applicable; n.d. = not determined)

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)