

MATERIAL SAFETY DATA SHEET

Fire-protective composition Endoterm 170205



Revision date: 14.07.2013

Version: 1.0 / en

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1. Identification of the Substance/Mixture and of the Company / Undertaking

1.1 Product Identifier

Commercial product name **Fire-protective composition Endoterm 170205**

Synonyms Endoterm 170205. Intumescent paint Endoterm 170205

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use *Water-dispersion fire-protective intumescent paint for steel constructions*

Use advised against None.

1.3 Details of the Supplier of the Product Safety Information

Company designation **NPP SPETSMATERIALY Ltd.**
Rozy Luxemburg Str. 70
83114 Donetsk
Ukraine

E-mail (competent person) endoterm@i.ua

1.4 Emergency Telephone Number

Emergency telephone number + 38 062 381 27 00

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2. Hazard Identification

2.1 Classification of the Substance or Mixture

Classification according to:
Regulation (EC) No. 1272/2008

Not classified according to CLP.

Classification according to:
GOST 12.1.007

class 4 (low hazardous substances for humans).

Not Classified as Hazardous according to criteria of Worksafe UKRAINE

2.2 Other Hazards

Eyes: May cause irritation to eyes.

Skin: Prolonged or repeated contact may cause irritation to skin.

Inhalation: Prolonged inhalation may cause irritation of upper respiratory passages.

Ingestion: May be harmful if ingested.

3. Composition / Information on Ingredients

3.1 Chemical Characterization

Components	Cas number	%
Titanium dioxide	13463-67-7	5-20
2,4,6-Triamino-1,3,5-triazine	108-78-1	8-15
Pentaerythritol	115-77-5	8-15

4. First Aid Measures

4.1 Description of First Aid Measures

General advice	In all cases of doubt, or when symptoms persist, seek medical advice.
If inhaled	Move person to fresh air. Upon discomfort, get medical advice.
In case of skin contact	If irritation occurs, flush skin with water for at least 15 minutes. If irritation persists, consult a physician
In case of eye contact	Flush eyes with water for at least 15 minutes. If irritation persists, consult a physician.
If swallowed	Drink plenty of water and consult a physician.

4.2 Indication of any Immediate Medical Attention and Special Treatment Needed

Immediate medical attention	First Aid, decontamination, treatment of symptoms.
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5. Fire Fighting Measures

5.1 Extinguishing Media

Water spray, foam, dry chemical powder of carbon dioxide

5.2 Hazardous products of combustion

In the event of fire, decomposition products could include: Oxides of carbon, nitrogen, phosphorus, silicon and titanium, as well as ammonia, aldehydes, and amines.

5.3 Advice for Fire Fighters

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Avoid contact with skin and eyes

6.2 Environmental Precautions

Environmental precautions The product is not classified as dangerous to the environment.

6.3 Methods and Materials for Containment and Cleaning Up

Small spill: For small spills, soak up material with an absorbent such as clay, sand, or other suitable material and dispose of properly. Flush area with water to remove trace residue.

Large spill: Wear respirator and protective clothing as appropriate. Shut off source of leak if it is safe to do so. Dike and contain spilled material. Remove with vacuum trucks or pump to storage/salvage containers. Soak up residue with an absorbent such as clay, sand, or other suitable material. Flush area with water to remove trace residue.

6.4 Reference to Other Sections

Reference to other sections See protective measures under points 7 and 8.

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7. Handling and Storage

7.1 Precautions for Safe Handling

Handle and open containers with care. Do not eat, drink, or smoke when handling this material. Do not swallow, or get into eyes or on clothing.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store in a cool, well ventilated place away from incompatible materials. Do not store near an open flame, heat, or other source of ignition.

8. Exposure Controls / Personal Protection

8.1 Exposure Controls

Eye/face protection: Chemical splash goggles or any types of safety glasses. Consult your safety representative.

Skin protection: Wear rubber gloves (consult your safety representative). Wear impervious clothing and boots to prevent repeated or prolonged skin contact.

Respiratory protection: If workplace exposure limits of product or any component are exceeded, using respirator is advised in absence of proper environmental control. Consult your safety representative. Engineering controls or administrative controls should be implemented to reduce exposure.

Engineering controls: Provide sufficient mechanical ventilation (general and local exhaust) to maintain exposure below the level of overexposure from known, suspected or apparent adverse effects.

General protective and hygiene measures: When using, do not eat, drink, or smoke. Wash hands before breaks and after work.

Exposure limits: (data shown is for components only)

<u>Ingredient</u>	<u>Exposure Limit</u>
Titanium dioxide	15 mg.m ³ 8hr TWA total dust
2,4,6-Triamino-1,3,5-triazine	10 mg/m ³ 8hr TWA inhalable fraction
Pentaerythritol	15 mg/m ³ TWA total dust

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9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance: Viscous, opaque, white color emulsion

Ph: 8.0-9.0

Vapor pressure: No data available.

Vapor density: No data available.

Boiling point: No data available.

Solubility in water: Dispersible.

Evaporation rate: No data available.

Mass density: 1.20 +/- 0.02 g/cm³

VOC level: < 0.3% (weight/weight)

Solids: at least 55%

10. Stability and Reactivity

10.1 Reactivity

Reactivity

The product is stable if stored and handled as advised.

10.2 Chemical Stability

Chemical stability

The product is stable if stored and handled as advised.

10.3 Possibility of Hazardous Reactions

Hazardous reactions

The product is stable if stored and handled as advised

10.4 Conditions to Avoid

Conditions to avoid

Avoid contact with skin, eyes and clothes.

10.5 Incompatible Materials

Materials to avoid

No data available.

10.6 Hazardous Decomposition Materials

Upon combustion, decomposition products could include: Oxides of carbon, nitrogen, phosphorus, silicon and titanium, as well as ammonia, aldehydes, and amines.

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11. Toxicological Information

11.1 Additional Information

Other information

The product does not meet the criteria for classification as hazardous as laid down in (EC) No. 1272/2008 (CLP) for any toxicological endpoint.

11.2 Teratogenicity, mutagenicity, or other reproductive effects:

Titanium dioxide: Oral ALD > 24,000 mg/kg (rat)

Dermal ALD > 10,000 mg/kg (rabbit)

Inhalation ALC (4 hr) > 6.82 mg/L (rat). Non-mutagenic

2,4,6-Triamino-1,3,5-triazine: Oral LD50 3161 mg/kg (rat)

Inhalation LC50 3248 mg/m³ (8 hr, rat). Non-mutagenic

Pentaerythritol: Oral LD50 25,500 mg/kg (rat)

Inhalation LC50 4 hr NOEL > 11 mg/L (rat). Non-mutagenic

12. Ecological Information

Titanium dioxide:

LC-50 96 hr > 1000 mg/L (fathead minnow)

2,4,6-Triamino-1,3,5-triazine:

EC50 48 hrs > 2000 mg/L (Daphnia magna)

EC50 96 hrs 940 mg/L (algae)

LC50 96hrs > 3000 mg/L (fish)

Pentaerythritol:

EC50 24 hr 38,900 mg/L (Daphnia magna)

LC0 48 hr > 5000 mg/L (fish)

The product does not meet the criteria for classification as hazardous to the environment as laid down in (EC) No. 1272/ (CLP) for any ecotoxicological endpoint.

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13. Disposal Consideration

Waste disposal information: Dispose in accordance with all applicable federal, state, and local regulations.

14. Transport Information

14.1 Land Transport

Remarks

No dangerous good in sense of this transport regulation.

14.2 Marine Transport

Remarks

No dangerous good in sense of this transport regulation.

14.3 Air Transport

Remarks

No dangerous good in sense of this transport regulation.

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations / Legislations Specific for the Substance or Mixture

Additional regulations

Specific national regulations must be considered.

Water hazards class (selfclassification)

Non-hazardous to water.

15.2 Chemical Safety Assessment

The MSDS has been compiled in compliance with (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP). Conclusion from CSA: non-hazardous.

16. Other Information

The information given in this MSDS is to the best of SPETSMATERIALY knowledge and believed accurate and reliable as of the data indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.