



## SAFETY DATA SHEET

## NORFLAM TP

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	10.02.2021
Revision date	20.05.2024

### 1.1. Product identifier

Product name	NORFLAM TP
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### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance / mixture	Fire retardant
Main intended use	PC-PNT-3 Paints/coatings - Protective and functional
Industrial use	Yes
Professional use	Yes
Consumer use	No

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

Company name	Nordtreat Finland Oy
Postal address	Mestarintie 11
Postcode	01730
City	Vantaa
Country	Finland
Telephone number	+358 20 730 9330
Email	info@nordtreat.com
Enterprise No.	2927144-5

### 1.4. Emergency telephone number

Emergency telephone	Telephone number: +358 800 147 111 or +358 9 471 977 Open 24 hours a day. Description: Poison Information Centre (in Finland), P.O. Box 790 (Tukholmankatu 17), 00029 HUS
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Identification, comment	Telephone number: 112 Description: Emergency telephone number (in Finland) Please contact the Emergency Centre in your own country, e.g. 112 in European Union countries.
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

CLP classification, note	In accordance with CLP/GHS regulation (EC) No 1272/2008, the product has not been classified as hazardous
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### 2.2. Label elements

Hazard statements	EUH 208 Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
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### 2.3. Other hazards

PBT / vPvB	For results of PBT and vPvB assessment, see point 12.5.
Other hazards	None reported. The product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No.: 55965-84-9 Index No.: 613-167-00-5	Acute Tox. 2; H310 Acute Tox. 2; H330 Acute Tox. 3; H301 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400; M-factor 100 Aquatic Chronic 1; H410; M-factor 100 EUH 071 CLP classification, notes: B	< 0,0015 %	
Description of the mixture	Aqueous solution.			
Remarks, substance	Specific concentration limits: Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (CAS: 55965-84-9) Eye Dam. 1; H318: C <sup>~</sup> 0,6 % Eye Irrit. 2; H319: 0,06 % ~ C < 0,6 % Skin Corr. 1C; H314: C <sup>~</sup> 0,6 % Skin Irrit. 2; H315: 0,06 % ~ C < 0,6 % Skin Sens. 1A; H317: C <sup>~</sup> 0,0015 %			
Substance comments	The full text for all hazard statements are displayed in point 16.			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	If the situation is unclear or symptoms persist, seek medical attention. Show this safety data sheet, product container or label to the doctor in attendance.
Inhalation	If inhaled, move exposed person to fresh air and keep at rest.
Skin contact	Wash contaminated skin thoroughly with water and soap. Get medical attention if skin irritation persists.
Eye contact	Flush eyes with plenty of water for several minutes.
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur.

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

Acute symptoms and effects	May produce an allergic reaction. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Delayed symptoms and effects	None known.

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

Other information	No specific instructions. Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
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### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is not flammable
Hazardous combustion products	Combustion of the product may form smoke, carbon monoxide, carbon dioxide and other products of incomplete combustion.

### 5.3. Advice for firefighters

Personal protective equipment	Wear appropriate protective equipment and self-contained breathing apparatus.
Fire fighting procedures	Fight fire with normal precautions from a reasonable distance. Avoid breathing fire vapours.
Other information	Take care of fire waste and contaminated extinguishing water in accordance with local regulations.

## SECTION 6: Accidental release measures

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

General measures	Stop leak if safe to do so. Ventilate area.
Personal protection measures	Wear appropriate personal protective equipment.

## 6.2. Environmental precautions

Environmental precautionary measures      Avoid release to the environment.

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

Clean up      Absorb spill with inert material (e.g. sand, diatomaceous earth, commercial absorbent) and collect in labeled, tightly sealed containers for disposal. Ventilate the area.

## 6.4. Reference to other sections

Other instructions      Safe handling: see point 7.  
Personal protective equipment: see point 8.  
Waste disposal: see point 13.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Handling      Avoid contact with skin or eyes. Use appropriate personal protective equipment while handling the product (see point 8).

## Protective safety measures

Advice on general occupational hygiene      Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Wash contaminated clothes before reuse.

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

Storage      Store away from food, drink and animal feedstuffs.

Conditions to avoid      For incompatible materials see point 10.5.

## Conditions for safe storage

Technical measures and storage conditions      Store in a well-ventilated area. Store protected from direct sunlight.

Storage temperature      Value: 5 - 35 °C

## 7.3. Specific end use(s)

Specific use(s)      None reported.

# SECTION 8: Exposure controls / personal protection

## 8.1. Control parameters

Control parameters comments      No applicable exposure limit values.

## DNEL / PNEC

DNEL      Comments: DNEL/PNEC: Chemical safety assessment has not been performed for the product, no information available about ingredients.

## 8.2. Exposure controls

### Precautionary measures to prevent exposure

Technical measures to prevent exposure	Ensure adequate ventilation.
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### Eye / face protection

Required Properties	Wear approved, tight fitting safety glasses where splashing is probable.
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### Hand protection

Suitable gloves type	Wear appropriate chemical-resistant, impervious gloves if skin contact or splashing may occur.
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### Skin protection

Suitable protective clothing	Wear appropriate protective clothing.
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### Respiratory protection

Respiratory protection necessary at	In case of inadequate ventilation wear respiratory protection.
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### Appropriate environmental exposure control

Environmental exposure controls	No special precautions required.
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## SECTION 9: Physical and chemical properties

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

Form	Liquid
Colour	According to specifications
Odour	Odourless or mild odor.
Odour limit	Comments: Not relevant.
pH	Status: In aqueous solution Value: 7,5 - 8,5
Melting point / melting range	Comments: Unknown.
Boiling point / boiling range	Comments: Unknown.
Flash point	Comments: Not amenable.
Evaporation rate	Comments: Unknown.
Explosion limit	Comments: Unknown.
Vapour pressure	Comments: Unknown.
Vapour density	Comments: Unknown.
Particle characteristics	Comments: Unknown.
Density	Value: 1,1 - 1,15 g/cm <sup>3</sup>

	Temperature: 20 °C
Solubility	Medium: Water Comments: Completely water-soluble.
Partition coefficient: n-octano water	Comments: Unknown.
Auto-ignition temperature	Comments: Not self-igniting.
Decomposition temperature	Comments: Unknown.
Viscosity	Comments: Unknown.
Explosive properties	Not classified as explosive.
Oxidising properties	Not classified as oxidising.

## 9.2. Other information

### 9.2.2. Other safety characteristics

Comments	None reported.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	Not reactive under normal use and storage conditions.
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### 10.2. Chemical stability

Stability	Chemically stable under normal storage conditions.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No dangerous reactions under normal use and storage conditions.
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### 10.4. Conditions to avoid

Conditions to avoid	None known.
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### 10.5. Incompatible materials

Materials to avoid	No known incompatible materials.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	No hazardous decomposition products known.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Other toxicological data                      There is no toxicological data available about the product as such. The product is not classified as acutely toxic.

### Other information regarding health hazards

Assessment of skin corrosion / irritation, classification	The product is not classified as irritant or corrosive to skin.
Assessment of eye damage or irritation, classification	The product is not classified as damaging or irritating to eyes. However, may slightly irritate eyes.
Sensitisation	The product is not classified as a respiratory or skin sensitiser.
Mutagenicity	The product is not classified as a mutagen
Assessment of carcinogenicity, classification	The product is not classified as a carcinogen.
Reproductive toxicity	The product is not classified as toxic to reproduction.
Assessment of specific target organ toxicity - single exposure, classification	The product is not classified as toxic to specific target organs at a single exposure.
Assessment of specific target organ toxicity - repeated exposure, classification	The product is not classified as toxic to specific target organs at repeated exposure.
Assessment of aspiration hazard, classification	The product is not classified as an aspiration hazard.

### Symptoms of exposure

In case of skin contact	May produce an allergic reaction. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
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### 11.2 Other information

Endocrine disruption	No data available about the product as such. Ingredients: no endocrine disrupting properties reported.
Other information	No other health effects reported.





## SECTION 14: Transport information

Dangerous goods No

### 14.1. UN number

Comments Not classified as hazardous for transport [ADR (road), RID (rail), ADN (inland waterways) and IMDG (sea)].

### 14.2. UN proper shipping name

Comments Not determined.

### 14.3. Transport hazard class(es)

Comments Not determined.

### 14.4. Packing group

Comments Not determined.

### 14.5. Environmental hazards

ICAO/IATA The product is not classified as hazardous to the environment.

### 14.6. Special precautions for user

Special safety precautions for user No special safety precautions.

### 14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no) No

## SECTION 15: Regulatory information

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

Legislation and regulations No specific regulations.

### 15.2. Chemical safety assessment

Chemical safety assessment performed No

## SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	<p>EUH 071 Corrosive to the respiratory tract.  H301 Toxic if swallowed.  H310 Fatal in contact with skin.  H314 Causes severe skin burns and eye damage.  H317 May cause an allergic reaction.  H318 Causes serious eye damage.  H330 Fatal if inhaled.  H400 Very toxic to aquatic life.  H410 Very toxic to aquatic life with long lasting effects.</p>
CLP classification, note	<p>The classification is based on the calculation method in accordance with Regulation (EC) No 1272/2008 [CLP / GHS].</p>
Training advice	<p>Read safety data sheet.</p>
Key literature references and sources for data	<p>Previous version of the SDS 22.04.2022</p>
Abbreviations and acronyms used	<p>DNEL: Derived No-Effect Level  PNEC: Predicted No-Effect Concentration  PBT: Persistent, Bioaccumulative and Toxic substance.  vPvB: very Persistent and very Bioaccumulative substance</p>
Information added, deleted or revised	<p>22.04.2022: Update according to Annex II of the REACH Regulation ([EU] 2020/878).  20.05.2024: Composition of the product updated. Name updated.</p>
Version	<p>3</p>
Comments	<p>The information of this safety data sheet is based on existing public information sources, such as current legislation, available at the time of publication of the completed safety data sheet, and information on the Customer's products that has been provided by the Customer to Sweco. The Customer is responsible that the information provided to Sweco is accurate and up to date.</p>