

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	22.04.2022

1.1. Product identifier

Product name

NT NORFLAM TP

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

Telephone number: 112 Description: Emergency telephone number (in Finland)

Identification, comments

Please contact the Emergency Centre in your own country, e.g. 112 in European

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture				
CLP classification, notes	In accordance with CLP/GHS regulation (EC) No 1272/2008, the product has no been classified as hazardous.			
2.2. Label elements				
Other label information (CLP)	No labeling. In accordance with current regulations, this product has not been classified as hazardous.			
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

Union countries.

3.2. Mixtures				
Substance	Identification	Classification	Contents	Notes
Silver nitrate	CAS No.: 7761-88-8	Ox. Sol. 2; H272 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,16 %	2

²Substance with a workplace exposure limit

Description of the mixture	Aqueous solution.
Substance comments	The full text for all hazard statements are displayed in point 16. The product does not contain ingredients classified as hazardous to health or the environment at concentrations exceeding the concentration limits for listing such ingredients.

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.		

NT NORFLAM TP - Version 1	Page 3 of 7
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 symptom	oms and effects, both acute and delayed
Acute symptoms and effects	None known.
Delayed symptoms and effects	None known.
4.3. Indication of any imme	ediate medical attention and special treatment needed
Other information	No specific instructions. Treat symptomatically.
SECTION 5: Firefighting	measures
5.1. Extinguishing media	
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
5.2. Special hazards arising	g 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 an	d storage			
7.1. Precautions for safe ha	andling			
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 sto	rage, 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					
Substance Id	entification	Exposure limits	TWA Year		
Silver nitrate C	AS No.: 7761-88-8	Country of origin: EU IOELV Limit value (8 h) : 0,01 mg/ m ³ Comments: Silver (soluble compounds as Ag) Country of origin: United States Limit value (8 h) : 0,01 mg/ m ³ Source: ACGIH, NIOSH			
DNEL / PNEC					
DNEL	Comments: DNEL/PNEC: Chemical safety assessment has not been performed				

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.
Eye / face protection	
Required Properties	Wear approved, tight fitting safety glasses where splashing is probable.
Hand protection	
Suitable gloves type	Wear appropriate chemical-resistant, impervious gloves if skin contact or splashing may occur.
Skin protection	
Suitable protective clothing	Wear appropriate protective clothing.
Respiratory protection	
Respiratory protection necessary at	In case of inadequate ventilation wear respiratory protection.
Appropriate environmental exposure control	

Environmental exposure controls

No special precautions required.

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. pН Status: In aqueous solution Value: 7 Melting point / melting range Comments: Unknown. Boiling point / boiling range Comments: Unknown. Flash point Comments: Not flammable. 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/cm³

	Temperature: 20 °C
Solubility	Medium: Water Comments: Completely water-soluble.
Partition coefficient: n-octanol/ 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.
SECTION 10: Stability an	nd reactivity
10.1. Reactivity	
Reactivity	Not reactive under normal use and storage conditions.
10.2. Chemical stability	
Stability	Chemically stable under normal storage conditions.
10.3. Possibility of hazardo	us reactions
Possibility of hazardous reactions	No dangerous reactions under normal use and storage conditions.
10.4. Conditions to avoid	
Conditions to avoid	None known.
10.5. Incompatible material	S
Materials to avoid	No known incompatible materials.
10.6. Hazardous decompos	ition products
Hazardous decomposition products	No hazardous decomposition products known.
SECTION 11: Toxicological information	
11.1. Information on toxico	ogical effects
Substance	Silver nitrate
Acute toxicity	Effect tested: LD50 Route of exposure: Oral

Method: OECD 401 Duration: 14 day(s) Value: > 2000 mg/kg bw Animal test species: Rat

Effect tested: LD50 Route of exposure: Dermal Method: OECD 402 Duration: 24 hour(s) Value: > 2000 mg/kg Animal test species: Rat

Effect tested: LC50 Route of exposure: Inhalation. Method: OECD 403 Duration: 4 hour(s) Value: > 0,75 mg/l Animal test species: Rat

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.
11.2 Other information	
T1.2 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 12: Ecological information

12.1. Toxicity

Substance	Silver nitrate
Aquatic toxicity, fish	Toxicity type: Acute Value: 1,2 µg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Pimephales promelas Method: Semi-static system, fresh water
Ecotoxicity	There is no ecotoxicological data available about the product as such. The product is not classified as hazardous to the environment. Avoid release to the environment.

12.2. Persistence and degradability	
Persistence and degradability description/evaluation	The degradability of the product has not been stated.
12.3. Bioaccumulative pote	ntial
Substance	Silver nitrate
Bioconcentration factor (BCF)	Value: 70 Animal test species: Cyprinus carpio Method: Static system, fresh water Comments: Log Pow 0,19
Bioaccumulation, evaluation	Product: No data recorded.
12.4. Mobility in soil	
Mobility	No data available.
12.5. Results of PBT and vP	PvB assessment
Results of PBT and vPvB assessment	Chemical safety assessment has not been made for this product. This product does not contain any PBT or vPvB substances.
12.6. Endocrine disrupting properties	
Endocrine disrupting properties	The product does not contain any known or suspected endocrine disruptors.
12.7. Other adverse effects	
Additional ecological information	None reported.
SECTION 13: Disposal considerations	
13.1. Waste treatment meth	nods

Appropriate methods of disposal for the chemical	Recover and reclaim or recycle, if practical. Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction.
EWC waste code	Classified as hazardous waste: No
Other information	Dispose of in compliance with local and national regulations.

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 na	ame
Comments	Not determined.
14.3. Transport hazard clas	ss(es)
Comments	Not determined.
14.4. Packing group	
Comments	Not determined.
14.5. Environmental hazard	s
ICAO/IATA	The product is not classified as hazardous to the environment.
14.6. Special precautions for	or 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	r 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 asse	ssment
Chemical safety assessment performed	No
SECTION 16: Other info	rmation
List of relevant H-phrases (Section 2 and 3)	H272 May intensify fire; oxidiser. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
CLP classification, notes	The classification is based on the calculation method in accordance with Regulation (EC) No 1272/2008 [CLP / GHS].

Training advice	Read safety data sheet.
Key literature references and sources for data	Previous version of the SDS 10.02.2021
Abbreviations and acronyms used	DNEL: Derived No-Effect Level PNEC: Predicted No-Effect Concentration PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: very Persistent and very Bioaccumulative substance
Information added, deleted or revised Version	22.04.2022: Update according to Annex II of the REACH Regulation ([EU] 2020/878). 1
Comments	The information of this action data also the state have does not the model information
Comments	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.