

Safety Data Sheet

According to (EC) No. 1907/2006

Day of issue: 29. April 2019

Day of revision: 19. November 2025

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

1.1. Product identifier

UFI: Not relevant

Substrates

pNPP Substrate, Cat. No. 4400

pNPP ONE Substrate, Cat. No. 4401

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

For research and analysis. Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

See below

Responsible person for the safety data sheet (e-mail): alttox@alttox.dk

1.4. Emergency telephone number

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

National Poisons Information Centre (Ireland): +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP (1272/2008): None

2.2. Label elements

None

2.3. Other hazards

PBT/vPvB: The ingredients are not considered PBT/vPvB according to criteria in Regulation 2023/707.

Endocrine disrupting properties: The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2023/707.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

% w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.-no.	Classification
≤6	Trometamol (TRIS)	77-86-1	201-064-4	-	-	Skin Irrit. 2;H315 Eye Irrit. 2;H319

Wording of hazard statements - see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move the affected person to fresh air. Keep at rest. If needed: get medical attention.
Skin contact: Remove contaminated clothing and wash with soap and water. If irritation persists: Seek medical advice.
Eye contact: Flush with water or physiological salt water, holding eye lids open, remember to remove contact lenses, if any. If irritation persists: Seek medical advice.
Ingestion: Rinse mouth and drink plenty of water. Keep under surveillance. If needed: get medical attention.

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

May cause slight irritation of skin, eyes and gastrointestinal tract.

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

Show this safety data sheet to a physician or emergency ward.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Not combustible; aqueous solution.

5.2. Special hazards arising from the substance or mixture

Not relevant (the product is not combustible).

5.3. Advice for firefighters

When extinguishing surrounding fires use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment - see section 8.

6.2. Environmental precautions

Avoid empty into drains. If large amounts of the mixture contaminate sewages, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Absorb spilled liquid and place spillage in a plastic container. Further handling of spillage - see section 13.

6.4. Reference to other sections

See references above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

At 2-8°C. Keep container closed when not in use. Protected against light.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits (EH40/2020): None

DNEL/PNEC: No CSR.

8.2. Exposure controls

Appropriate engineering controls: None particular.

Personal protective equipment:

Inhalation: Not relevant during normal use.

Skin: In case of prolonged or repeated work: Wear protective gloves (EN374) e.g. of nitrile. Breakthrough time: approximately 3 hours.

Eyes: Not relevant during normal use. Safety goggles (EN ISO 16321-1) when there is risk of eye contact.

Environmental exposure controls: None particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	None
Odour:	None
Melting point / freezing point (°C):	No available data
Initial boiling point and boiling range (°C):	~ 100
Flammability (solid, gas):	Not relevant
Lower and upper explosion limit (vol.-%):	Not relevant
Flash point (°C):	Not relevant
Auto-ignition temperature (°C):	Not relevant
Decomposition temperature (°C):	No available data
pH:	No available data
Kinematic viscosity:	No available data
Solubility:	Completely soluble in water
Partition coefficient: n-octanol/water, Log K _{ow} :	No available data
Vapour pressure (hPa, 20°C):	~ 2.3
Density and/or relative density (g/cm ³):	~ 1
Particle characteristics:	Not relevant - liquid

9.2. Other information

None relevant

SECTION 10: Stability and reactivity

10.1. Reactivity

No available data.

10.2. Chemical stability

Stable under normal conditions - see section 7.

10.3. Possibility of hazardous reactions

None known

10.4. Conditions to avoid

Excessive heating and freezing

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	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.

Hazard class	Data (TRIS)	Test	Data source
Acute toxicity:			
Inhalation	No available or applicable data.	-	-
Dermal	LD ₅₀ (rat) = >5000 mg/kg	OECD 402	ECHA
Oral	LD ₅₀ (rat) = >5000 mg/kg	OECD 425	ECHA
Corrosion/irritation:	No skin or eye irritation	OECD 404, 405	ECHA
Sensitization:	No skin- or respiratory sensitization	No info	Supplier
CMR:	No mutagenic effects (in vitro) No carcinogen effects	Read-across Publication	ECHA ECHA

Information on likely routes of exposure: Skin, lungs and ingestion.

Symptoms:

Inhalation:	Inhalation of atomized liquid may cause irritation of the upper respiratory tract.
Skin:	May cause irritation with redness.
Eyes:	May cause irritation with redness.
Ingestion:	Ingestion of large amounts can cause irritation with nausea and stomach ache.
Chronic effects:	None known.

11.2. Information on other hazards:

None known

SECTION 12: Ecological information

12.1. Toxicity

Aquatic	Data (TRIS)	Test (Media)	Data source
Fish	LC ₀ (fish) = >4000 mg/l	DIN 38412 (FW)	ECHA
Crustacean	EC ₅₀ (Daphnia magna, 72h) = >980 mg/l	OECD 202 (FW)	ECHA
Algae	EC ₅₀ (Pseudokirchneriella sub. 72h) = 397 mg/l	OECD 201 (FW)	ECHA

12.2. Persistence and degradability

TRIS is readily biodegradable (>66%, 28d, OECD 301F).

12.3. Bioaccumulative potential

TRIS: Log Kow < 1 – Bioaccumulation not expected

12.4. Mobility in soil

No available or applicable data.

12.5. Results of PBT and vPvB assessment

No ingredients are PBT/vPvB, according to the criteria in Regulation 2023/707.

12.6. Endocrine disrupting properties:

None known.

SECTION 12: Ecological information (continued)

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

EWC-code:

16 05 09 (mixture itself)

15 02 03 (Paper towel, inert material etc. contaminated with the mixture)

SECTION 14: Transport information

Not dangerous goods according to ADR/RID/IMDG/IATA

14.1. UN number or ID number: None

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards None

14.6. Special precautions for user None

14.7. Maritime transport in bulk according to IMO instruments Not relevant

SECTION 15: Regulatory information

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

None

15.2. Chemical safety assessment

No CSR

SECTION 16: Other information

Abbreviations:

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

Literature:

ECHA = European Chemicals Agency

Training advice:

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Other information:

This Safety Data Sheet is intended as a service to customers/users of this product.

Changes since the previous edition:

2, 8, 12

Prepared by: Altos a/s – Tonsbakken 16-18 – DK-2740 Skovlunde - Phone +45 - 38 34 77 98/ PW - Quality control: PH