



Noctua NT-H1

Noctua NT-H1 safety data sheet

According to Regulation (EC) No 1907/2006 (REACH)

Version: 1.3

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Section 1

Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name / designation: Noctua NT-H1

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

Thermal interface material (especially for use in PC environments)

1.3. Details of the supplier of the safety data sheet

Rascom Computerdistribution Ges.m.b.H.
Linzer Strasse 237, A-1140 Wien, AUSTRIA
Tel.: +43 (1) 494 13 95 - 0
Email: sales@noctua.at / www.noctua.at

1.4 Emergency telephone number:

England and Wales: National Poison Information Service, 0845 46 47
Scotland: National Poison Information Service, 08454 24 24 24
USA: American Association of Poison Control Centers, 1-800-222-1222
Australia: Poisons Information Centre, 13 11 26

Section 2

Hazards identification

2.1. Classification of the substance or mixture

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2. Label elements

none

2.3. Other hazards

none



Section 3

Composition

3.1. Description of the mixture

Synthetic oil mixture

3.2. Hazardous ingredients

Substance name	CAS-No.	INDEX No.	EC-No.	Concentration	Classification according to Regulation (EC) Nr. 1272 [CLP]	SCL and/or M-factor
Aluminium-powder (pyrophor)	7429-90-5	013-001-00-6	231-072-3	60~80%	Water-react. 2, H261 Pyr. Sol. 1, H250	
Zinc oxyde	1314-13-2	030-013-00-7	215-222-5	15~25%	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	

Full text of h-phrases: see section 16.

Note: The hazardous features described in this section only concern the pure ingredients, not the mixture (product). For the classification of the product, see section 2.

Section 4

First aid measures

4.1. Description of first aid measures

- **General information:** if used properly under normal circumstances, no adverse effects are to be expected from sporadic exposure.
- **Following skin contact:** no first aid measures required. If skin irritation occurs after prolonged exposure, wash with soap and water.
- **Following inhalation:** no first aid measures required. If breathing difficulties occur after inhaling intensely heated vapours, move the person into the fresh air and seek medical advice.
- **Following eye contact:** rinse eye with water immediately. Seek medical advice if irritation persists.



- **Following ingestion:** rinse mouth and seek medical advice. Do not induce vomiting.
- **Self-protection of the first aider:** Not required.

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

- If used properly under normal circumstances, no adverse effects are to be expected from sporadic exposure.
- Prolonged skin contact can cause skin irritation.
- Eye contact can cause eye irritation.
- Inhaling intensely heated vapours can cause breathing difficulties.

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

none

Section 5

Firefighting measures

5.1. Extinguishing media

- **Suitable extinguishing media:** foam, spray, water jets. Dry extinguishing agents, carbon dioxide (CO₂) or sand, should only be used for small fires. Foam or spray should be used for bigger fires.
- **Unsuitable extinguishing media:** water jets may spread fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: carbon monoxide, carbon dioxide.

5.3. Advice for fire-fighters

Full protective clothing and breathing apparatus are advised.

Additional information: product is not classified as flammable but will burn.



Section 6

Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Measures of precaution: avoid eye contact and prolonged skin contact.

Protective equipment: if there is danger of eye contact or prolonged skin contact, use chemically resistant gloves, long-sleeved clothing and safety glasses with side shields.

Emergency procedures: see section 4.1.

For emergency responders

Personal protective equipment: if there is danger of eye contact or prolonged skin contact, use chemically resistant gloves, long-sleeved clothing and safety glasses with side shields. Also see section 5.3.

6.2. Environmental precautions

Prevent from spreading into sewers, drains or rivers using sand, earth or other appropriate barriers or sealing measures.

6.3. Methods and material for containment and cleaning up

- For containment: barriers and sealing measures. All standard materials can be used.
- For cleaning up: remove residues and clean with water and standard household cleaning agents.

6.4. Reference to other sections

See also section 8 and 13.



Section 7

Handling and storage

7.1. Precautions for safe handling

Ensure sufficient room ventilation, and avoid eye contact and prolonged skin contact. Do not ingest. Practise good industrial hygiene. Wash hands with soap and water after use, especially before eating, drinking or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels: store at room temperature in original packaging and avoid direct sunlight. Avoid contact with oxidising materials.

7.3. Specific end uses

For use as a thermal interface material in PC environments, see the included user manual or the online PDF version available at: www.noctua.at/manuals.

Section 8

Exposure controls/personal protection

8.1. Control parameters

none

8.2. Exposure controls

Personal protective equipment:

- Eye/face protection: not required for proper use under normal circumstances.
- Hand protection: not required for proper use under normal circumstances. Use standard chemically resistant gloves in case of prolonged contact.
- Body protection: not required for proper use under normal circumstances.



- **Other skin protection measures:** wash with soap and water after usage, especially before eating, drinking or smoking.
- **Respiratory protection:** not required for proper use under normal circumstances.

Environmental exposure control:

No special measures required.

Section 9

Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: paste

Colour: grey

Smell: slight

pH-value (at 20°C): 7

Water solubility: insoluble

Flash point: 260°C

Viscosity: 500000 Cps

Specific gravity (at 20°C): 2,49g/cm³

Dielectric strength: 1,5kV/mm

Section 10

Stability and reactivity

10.1. Reactivity:

See section 10.3.

10.2. Chemical stability:

Under storage at normal ambient temperatures (minus 40° C to + 40° C), the product is stable. No hazardous reaction when handled and stored according to provisions.



10.3. Possibility of hazardous reactions:

Can react with strong oxidising agents.

10.4. Conditions to avoid:

Contact with strong oxidising agents, temperatures below -50°C or above +110°C.

10.5. Incompatible materials:

Strong oxidising agents

10.6. Hazardous decomposition products:

See section 5.2.

Section 11

Toxicological information

11.1. Information on toxicological effects

The following information concerns the entire mixture (product), not its separate ingredients (see section 3 for information regarding the pure ingredients).

- Acute toxicity: no
- Irritation: direct eye contact can be uncomfortable and cause temporary redness. No irritations are to be expected after temporary skin contact.
- Corrosivity: no
- Sensitisation: none known
- Repeated dose toxicity: none known
- Carcinogenicity: none known
- Mutagenicity: none known
- Toxicity for reproduction: none known
- Allergic reactions: none known
- Specific target organ toxicity (single exposure): none known
- Specific target organ toxicity (repeated exposure): none known
- Aspiration hazard: None with proper usage under normal conditions.



Section 12

Ecological information

12.1. Toxicity

Aquatic toxicity: the product contains ingredients that are very toxic for aquatic life and can have long-lasting adverse effects in an aquatic environment (see section 3). However, due to the physical form and water-insolubility of the product, the aquatic toxicity of the product itself is negligible.

Other ecotoxicological effects: none known

Section 13

Disposal considerations

13.1. Product disposal

The product must be disposed of as special waste.

13.2. Packaging disposal

The packaging materials can be disposed of according to local regulations.

Section 14

Transport information

14.1. UN-No.

Not applicable

Additional information: As NT-H1 does not classify as hazardous according to the United Nations Recommendations on the Transport of Dangerous Goods, it does not fall under the UN number or shipping name designation. While NT-H1 contains substances that qualify as hazardous in raw material form (see section 2), the mixture (product) is not hazardous and therefore does not require a UN number as per section 3.1.3.1 of the United Nations Recommendations on the Transport of Dangerous Goods, 21st edition 2019 ("A mixture or solution is not subject to these Regulations if the characteristics, properties, form or physical state of the mixture or solution are such that it does not meet the criteria, including human experience criteria, for inclusion in any class.", c.f. https://unece.org/fileadmin/DAM/trans/danger/publi/unrec/rev21/ST-SG-AC10-1r21e_Vol1_WEB.pdf)



14.2. UN Proper shipping name

Not applicable (see additional information in section 14.1)

14.3. Transport hazard classes

none

14.4. Hazard labels

none

14.5. Environmental hazards

none

14.6. Special precautions for user

none

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport in bulk.

Additional information: not a dangerous good according to ADR/RID, ADN, IMDG or ICAO-IATA/DGR.

14.8. DOT road shipment information (49 CFR 172.101)

No subject to DOT.

14.9. Classification for sea shipment (IMO/IMDG)

Not subject to IMO/IMDG codes.

14.10. Classification for air shipment (ICAO/IATA)

Not subject to ICAO/IATA regulations.

Section 15

Regulatory information

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

- EU regulations: regulation (EC) No. 1907/2006, regulation (EC) No. 1272/2008, regulation (EC) No. 453/2010, regulation (EC) No. 2015/830
- Authorisations: not required
- Restrictions on use: none

15.2. Chemical Safety Assessment

A chemical safety assessment is not required for this product.





Section 16

Other information

16.1. Indication of changes

Version 1.0 (28.1.2008): initial creation

Version 1.1 (13.6.2013): correction of supplier data

Version 1.2 (19.11.2015): major revision according to regulation (EC) Nr. 1907/2006

Version 1.3 (8.4.2022): updates of transport information

16.2. Relevant H-phrases in section 3

H250: Catches fire spontaneously if exposed to air.

H261: In contact with water releases flammable gases.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects

16.3. Further information

This safety data sheet has been created conscientiously and to the best of our knowledge on the basis of data provided by our pre-suppliers. Rascom takes no responsibility and will not be liable for the accuracy or completeness of the provided information. The safety data sheet is meant to give guidance for safely using, storing, transporting and disposing of the product, but it is not to be regarded as a guarantee of the product's properties and cannot be the basis of a legal relationship. The information contained within this safety data sheet is not applicable to any other product and if the product is processed or mixed with other materials, the information does not apply to the resulting material. It is the responsibility of the user to respect laws and regulations. As the various possible conditions and influences in transport, storage, usage and disposal of the product are beyond our control and knowledge, the user is solely responsible for taking the necessary precautions. The safety data sheet does not guarantee that there cannot be other hazards and measures than the ones described in the document. In particular, Rascom explicitly cautions against possible risks due to improper usage of the product which cannot be discussed within the safety data sheet.