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#### **SAFETY DATA SHEET**

# **NT Thermo Black**

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 17.02.2023

#### 1.1. Product identifier

Product name NT Thermo Black

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

Use of the substance / mixture Flame retardant.

Main intended use PC-CON-5 Construction chemicals

Industrial use Yes

Professional use Yes

Consumer use No

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

Company name Nordtreat Oy

Postal address Mestarintie 11

Postcode FI-01730

City Vantaa

Country Finland

Telephone number +358 20 730 9330

Email <u>info@nordtreat.com</u>

Enterprise No. FI-2927144-5

#### 1.4. Emergency telephone number

Emergency telephone Telephone number: +358 800 147 111 or +358 9 471 977

Description: Poison Information Centre (in Finland), P.O. Box 790 (Tukholmankatu

17), 00029 HUS Open 24 hours a day.

Telephone number: 112

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Description: Emergency telephone number

Open 24 hours a day.

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

Union countries.

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] Aquatic Acute 1; H400

Aquatic Chronic 3; H412

#### 2.2. Label elements

# **Hazard pictograms (CLP)**



Signal word Warning

Hazard statements H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents / container to in accordance with local / regional /

national/international regulation.

Supplemental label information EUH 208 Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one, 3-iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

#### 2.3. Other hazards

PBT / vPvB For results of PBT and vPvB assessment, see point 12.5.

Other hazards Endocrine disrupting properties: The product contains a substance undergoing

an endocrine disruptor assessment. 3-iodo-2-propynyl butylcarbamate (CAS:

55406-53-6)

# **SECTION 3: Composition / information on ingredients**

# 3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
N-(1,1-dimethylethyl) bis(2-benzothiazolesulfen) amide	CAS No.: 3741-80-8 EC No.: 407-430-1 Index No.: 613-180-00-6 REACH Reg. No.: 01-2120804754-55-xxxx	Aquatic Acute 1; H400; M-factor 100 Aquatic Chronic 1; H410; M-factor 1	< 2 %	
3-iodo-2-propynyl butylcarbamate	CAS No.: 55406-53-6 EC No.: 259-627-5 Index No.: 616-212-00-7 REACH Reg. No.:	Acute Tox. 3; H331 Acute Tox. 4; H302 STOT RE 1; H372 Eye Dam. 1; H318	< 0,25 %	

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	01-2120762115-60	Skin Sens. 1; H317 Aquatic Acute 1; H400; M-factor 10 Aquatic Chronic 1; H410; M-factor 1	
1,2-benzisothiazol-3(2H) -one	CAS No.: 2634-33-5 EC No.: 220-120-9 Index No.: 613-088-00-6 REACH Reg. No.: 01- 2120761540-60	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400; M-factor 1 Aquatic Chronic 2; H411	< 0,05 %
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: Huomautus: 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:  $C \ge 0,6 \%$ Eye Irrit. 2; H319:  $0,06 \% \le C < 0,6 \%$ Skin Corr. 1C; H314:  $C \ge 0,6 \%$ Skin Irrit. 2; H315:  $0,06 \% \le C < 0,6 \%$ Skin Sens. 1A; H317:  $C \ge 0,0015 \%$ 

1,2-benzisothiazol-3(2H)-one (CAS: 2634-33-5)

Skin Sens. 1; H317: C ≥ 0,05 %

Substance comments

The full text for all hazard statements is 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. Get medical

attention if symptoms occur.

Skin contact Wash contaminated skin thoroughly with water and soap.

Remove contaminated clothing and shoes. Get medical attention if symptoms

occur.

Eye contact Flush eyes with plenty of water for several minutes. Remove contact lenses, if

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present and easy to do, and continue rinsing. Contact a doctor.

Ingestion Rinse the mouth and give 1-2 glasses of water to drink. Do NOT induce vomiting.

Call a POISON CENTER or doctor/physician.

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

Acute symptoms and effects May produce an allergic skin reaction.

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one,

3-iodo-2-propynyl butylcarbamate.

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.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Alcohol-resistant foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

#### 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. Discharge of extinguishing waters into drains, sewers or

waterways must be prevented.

#### **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. Keep unnecessary and unprotected

people from entering.

Personal protection measures Wear appropriate personal protective equipment. Avoid breathing vapours and

contact with skin or eyes.

#### 6.2. Environmental precautions

Environmental precautionary

measures

Do not discharge the product or extinguishing waters into drains, sewers or any

waterways. Contact local authorities in case of spillage to drain/aquatic

environment.

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

Containment Stop leak if safe to do so.

Clean up Collect spillage in containers, seal securely and deliver for disposal according to

local regulations.

# 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 Ensure adequate ventilation. 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. Keep containers tightly closed

and upright to prevent leakage.

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. Protect from

freezing.

#### 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: Chemical safety assessment has not been performed for the

product.

#### **DNEL / PNEC**

Substance N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide

DNEL Group: Professional

Route of exposure: Long-term dermal (local)

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Value: 1.06 mg/cm<sup>2</sup>

**Group:** Professional

Route of exposure: Long-term dermal (systemic)

Value: 10.9 mg/kg bw/day

**Group:** Professional

Route of exposure: Long-term inhalation (systemic)

Value: 38.5 mg/m³
Group: Consumer

Route of exposure: Long-term oral (systemic)

Value: 5.46 mg/kg bw/day

Group: Consumer

Route of exposure: Long-term dermal (local)

Value: 0.53 mg/cm<sup>2</sup>

Group: Consumer

Route of exposure: Long-term dermal (systemic)

Value: 5.47 mg/kg bw/day

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 9.5 mg/m<sup>3</sup>

Route of exposure: Freshwater

Value: 0.0041 mg/l

Route of exposure: Saltwater

Value: 0.00041 mg/l

**Route of exposure:** Water **Value:** 0.0041 mg/l

Comments: Intermittent release

Route of exposure: Sewage treatment plant STP

**Value:** 0.19 mg/l

Route of exposure: Freshwater sediments

Value: 16.66 mg/kg Comments: dwt

Route of exposure: Saltwater sediments

Value: 1.67 mg/kg Comments: dwt

Route of exposure: Soil Value: 3.32 mg/kg Comments: dwt

Route of exposure: Food products

Value: 243 mg/kg

#### 8.2. Exposure controls

**PNEC** 

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#### Safety signs



#### Precautionary measures to prevent exposure

Appropriate engineering controls

Provide adequate ventilation. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

#### Eye / face protection

Suitable eye protection

Use tight-fitting safety goggles (EN 166).

#### Hand protection

Suitable gloves type

Wear appropriate chemical resistant safety gloves (EN 374).

Hand protection, comments

Contact glove manufacturer for specific advice on glove selection.

#### Skin protection

Suitable protective clothing

Wear appropriate chemical-resistant, impervious protective clothing.

#### Respiratory protection

Respiratory protection necessary

at

In case of inadequate ventilation wear respiratory protection.

Respiratory protection, comments 
Contact the protective equipment manufacturer to select a suitable respirator.

#### Appropriate environmental exposure control

Environmental exposure controls

Prevent entry into drains, sewers, waterways or soil.

# **SECTION 9: Physical and chemical properties**

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

Form Liquid

Colour Black.

Odourless or mild odor.

Odour limit Comments: Not relevant.

pH Value: 7,5 - 8,5

Melting point / melting range

Boiling point / boiling range

Comments: Not determined.

Comments: Not determined.

Comments: Not determined.

Evaporation rate

Comments: Not determined.

Explosion limit

Comments: Not determined.

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Vapour pressure Comments: Not determined.

Vapour density Comments: Not determined.

Particle characteristics Comments: Not relevant.

Density Value: 1,12 kg/l

Solubility Comments: Not determined.

Partition coefficient: n-octanol/

water

Comments: Not determined.

Auto-ignition temperature Comments: Not determined.

Decomposition temperature Comments: Not determined.

Viscosity Comments: Not determined.

#### 9.2. Other information

#### 9.2.2. Other safety characteristics

Comments None reported.

# **SECTION 10: Stability and 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 hazardous reactions

Possibility of hazardous reactions None known.

#### 10.4. Conditions to avoid

Conditions to avoid None known.

#### 10.5. Incompatible materials

Materials to avoid No known incompatible materials.

#### 10.6. Hazardous decomposition products

Hazardous decomposition

products

No hazardous decomposition products known.

# **SECTION 11: Toxicological information**

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

Acute toxicity Comments: There is no toxicological data available about the product as such.

The product is not classified as acutely toxic.

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Substance N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide

Acute toxicity Effect tested: LD50

Route of exposure: Oral Value: > 5000 mg/kg Animal test species: Rat

Effect tested: LD50

Route of exposure: Dermal Value: > 2000 mg/kg Animal test species: Rabbit

#### Other information regarding health hazards

Assessment of skin corrosion / The product is not classified as irritant or corrosive to skin. Data lacking. irritation, classification

Assessment of eye damage or The product is not classified as damaging or irritating to eyes. Data lacking. irritation, classification

The product is not classified as a respiratory or skin sensitiser. Data lacking. However, the product contains small amounts of components that may produce an allernic reaction.

an allergic reaction.

Mutagenicity The product is not classified as a mutagen. Data lacking.

Assessment of carcinogenicity, Classification The product is not classified as a carcinogen. Data lacking.

Reproductive toxicity The product is not classified as toxic to reproduction. Data lacking.

Assessment of specific target organ toxicity - single exposure, classification

The product is not classified as toxic to specific target organs at a single exposure. Data lacking.

Assessment of specific target organ toxicity - repeated exposure, exposure. Data lacking.

classification

Assessment of aspiration hazard, The product is not classified as an aspiration hazard. Data lacking.

#### Symptoms of exposure

classification

Sensitisation

In case of skin contact

May cause an allergic skin reaction. (Reaction mass of

5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,

2-benzisothiazol-3(2H)-one, 3-iodo-2-propynyl butylcarbamate)

# 11.2 Other information

Endocrine disruption The product contains a substance undergoing an endocrine disruptor

assessment. 3-iodo-2-propynyl butylcarbamate (CAS: 55406-53-6)

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Substance N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide

Aquatic toxicity, fish **Toxicity type:** Acute

**Value:** > 2,7 mg/l

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Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Pimephales promelas

**Toxicity type:** Chronic **Value:** 0.041 mg/l

Effect dose concentration: NOEC

Test duration: 89 day(s)

Substance N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide

Aquatic toxicity, algae **Toxicity type:** Acute **Value:** > 0,87 mg/l

Effect dose concentration: EC50 Test duration: 96 hour(s)

Species: Pseudokirchneriella subcapitata

Substance N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide

Aquatic toxicity, crustacean **Toxicity type:** Acute

Value: 5 µg/l

Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Daphnia magna

**Toxicity type:** Chronic **Value:** > 0.16 mg/l

Effect dose concentration: NOEC

**Test duration:** 21 day(s) **Species:** Daphnia magna

Ecotoxicity Very toxic to aquatic life with long lasting effects. Prevent entry into drains,

sewers, waterways or soil.

#### 12.2. Persistence and degradability

Persistence and degradability description/evaluation

No data available.

#### 12.3. Bioaccumulative potential

Bioaccumulation, evaluation

No data available.

# 12.4. Mobility in soil

Mobility No data available.

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

Not Classified as PBT/vPvB by current EU criteria.

assessment

#### 12.6. Endocrine disrupting properties

assessment. 3-iodo-2-propynyl butylcarbamate (CAS: 55406-53-6)

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#### 12.7. Other adverse effects

Additional ecological information

None reported.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Appropriate methods of disposal

for the chemical

Other information

Prevent entry into drains, sewers, waterways or soil.

Dispose of in compliance with local and national regulations. Avoid release to the  $\,$ 

environment.

# **SECTION 14: Transport information**

Dangerous goods

Yes

#### 14.1. UN number

ADR/RID/ADN

3082

**IMDG** 

3082

ICAO/IATA

3082

# 14.2. UN proper shipping name

Proper shipping name English

ADR/RID/ADN

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

ADR/RID/ADN

 ${\tt ENVIRONMENTALLY\ HAZARDOUS\ SUBSTANCE,\ LIQUID,\ N.O.S.}$ 

Technical name/danger releasing

substance ADR/RID/ADN

 $N\hbox{-}(1,1\hbox{-}dimethylethyl) bis (2\hbox{-}benzothiazole sulfen) a mide$ 

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical name/danger releasing

substance IMDG

N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide

ICAO/IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical name/danger releasing

substance ICAO/IATA

N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide

#### 14.3. Transport hazard class(es)

ADR/RID/ADN

9

Classificaton code ADR/RID/ADN

M6

# 14.4. Packing group

ADR/RID/ADN

Ш

**IMDG** 

Ш

ICAO/IATA

III

### 14.5. Environmental hazards

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IMDG Marine pollutant Yes.

Comments The product is very toxic to aquatic life with long-lasting effects.

#### 14.6. Special precautions for user

Special safety precautions for user Not determined.

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

9

Transport in bulk (yes/no) No

#### Additional information

Hazard label IMDG

Hazard label ADR/RID/ADN 9

Hazard label ICAO/IATA 9

#### ADR/RID Other information

Tunnel restriction code

Transport category 3
Hazard No. 90

#### IMDG Other information

EmS F-A, S-F

# **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)

EUH 071 Corrosive to the respiratory tract.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

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H372 Causes damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful 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.

observed

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Key literature references and sources for data

Product specifications by manufacturer SDSs for product components

Abbreviations and acronyms used

**DNEL: Derived No-Effect Level** 

EC50: Effective concentration: concentration which kills or immobilises 50 % of exposed organisms

LC50: Lethal concentration 50 % (median lethal concentration): concentration which kills 50 % of exposed organisms

LD50: Lethal dose 50 % (median lethal dose): dose which kills 50 % of exposed organisms

NOEC: No Observed Effect Concentration: concentration at which no effects are

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No-Effect Concentration

vPvB: very Persistent and very Bioaccumulative substance

Version

Prepared by Sweco Finland Oy

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.