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SAFETY DATA SHEET

NORFLAM® W311

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 10.03.2023

Revision date 10.04.2024

1.1. Product identifier

Product name NORFLAM® W311

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. NORFLAM® W311 - Version 1 Page 2 of 10

Telephone number: 112

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

CLP classification, notes In accordance with CLP/GHS regulation (EC) No 1272/2008, the product has not

been classified as hazardous.

2.2. Label elements

Supplemental label information FUH 208 Contains reacti

EUH 208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) and 3-iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

2.3. Other hazards

PBT / vPvB Not classified as PBT/vPvB by current EU criteria.

Other hazards Endocrine disrupting properties: The product contains 3-iodo-2-propynyl

butylcarbamate (CAS: 55406-53-6), which is undergoing an endocrine disruptor

assessment.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
3-iodo-2-propynyl butylcarbamate	CAS No.: 55406-53-6 EC No.: 259-627-5 Index No.: 616-212-00-7 REACH Reg. No.: 01-2120762115-60	Acute Tox. 3; H331 Acute Tox. 4; H302 STOT RE 1; H372 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400; M-factor 10 Aquatic Chronic 1; H410; M-factor 1	≤ 0,1 %	
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,	< 0,0015 %	

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notes: B

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: $C \ge 0.0015 \%$

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 plenty of soap and water. 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

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 Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1) and 3-iodo-2-propynyl butylcarbamate. May

produce an allergic skin reaction.

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.

Improper extinguishing media Do not use water jet as an extinguisher, as this may spread the fire.

5.2. Special hazards arising from the substance or mixture

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Hazardous combustion products

During fire, toxic gases and vapours may be evolved. Combustion of the product may form smoke, carbon monoxide, carbon dioxide, aldehydes 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. 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 Avoid breathing vapours and contact with skin or eyes. Wear appropriate

personal protective equipment. For personal protection, see section 8.

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.

6.3. Methods and material for containment and cleaning up

Containment Stop leak if safe to do so.

Clean up Absorb spill with inert material (e.g. sand, diatomaceous earth, commercial

absorbent) and collect in clearly labeled containers for disposal.

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 breathing mist / vapours / dust. 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

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the end of workday. Take off contaminated clothing immediately and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage 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) The use stated in section 1.2.

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, no information available about ingredients.

8.2. Exposure controls

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. Follow the manufacturer's instructions in the use of protective gloves. Break-through time must be found out by manufacturer of the protective gloves and must be observed.

Skin protection

Suitable protective clothing Wear appropriate chemical-resistant, impervious protective clothing.

Respiratory protection

Respiratory protection necessary

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In case of inadequate ventilation wear respiratory protection.

Respiratory protection, comments

Contact the protective equipment manufacturer to select a suitable respirator.

Thermal hazards

Thermal hazards

No thermal hazards known.

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

Physical state Liquid.

Colour White.

Odourless or mild odor.

Odour limit Comments: Not relevant.

pH Value: 7,1 - 7,6

Melting point / melting range Comments: Not determined.

Freezing point Comments: Not determined.

Boiling point / boiling range Comments: Not determined.

Flash point Comments: Not determined.

Evaporation rate Comments: Not determined.

Flammability Not determined.

Explosion limit

Vapour pressure

Comments: Not determined.

Vapour density

Comments: Not determined.

Comments: Not determined.

Particle characteristics

Comments: Not relevant.

Density Value: 1.12 - 1.17

Solubility Comments: Not determined.

Partition coefficient: n-octanol/

Comments: Not determined.

water

water

Auto-ignition temperature Comments: Not determined.

Decomposition temperature Comments: Not determined.

Viscosity Comments: Not determined.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties None reported.

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

Avoid freezing conditions.

10.5. Incompatible materials

Materials to avoid

No known incompatible materials.

10.6. Hazardous decomposition products

Hazardous decomposition products

During fire, toxic gases and vapours may be evolved. Combustion of the product may form smoke, carbon monoxide, carbon dioxide and other products of incomplete combustion.

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.

Other information regarding health hazards

Assessment of skin corrosion / irritation, classification

The product is not classified as irritant or corrosive to skin. Data lacking.

Assessment of eye damage or irritation, classification
Sensitisation

The product is not classified as damaging or irritating to eyes. Data lacking.

The product is not classified as a respiratory or skin sensitiser. However, the product contains small amounts of components that may produce an allergic reaction. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

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2-methyl-2H-isothiazol-3-one (3:1) and 3-iodo-2-propynyl butylcarbamate.

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

Assessment of carcinogenicity,

classification

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,

organ toxicity - single exposur classification

Assessment of specific target organ toxicity - repeated exposure,

Assessment of aspiration hazard, classification

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

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

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

Symptoms of exposure

In case of ingestion No symptoms known.

In case of skin contact

Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1) and 3-iodo-2-propynyl butylcarbamate. May

produce an allergic reaction.

In case of inhalation Not expected to cause respiratory irritation

In case of eye contact

Not expected to cause eye irritation.

11.2 Other information

Endocrine disruption The product contains 3-iodo-2-propynyl butylcarbamate (CAS: 55406-53-6), which

is undergoing an endocrine disruptor assessment.

Other information None reported.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

There is no environmental data available about the product as such. The product is not classified as hazardous to the environment. Data lacking. 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

assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Endocrine disrupting properties

Endocrine disrupting properties

The product contains 3-iodo-2-propynyl butylcarbamate (CAS: 55406-53-6), which is undergoing an endocrine disruptor assessment.

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

Prevent entry into drains, sewers, waterways or soil.

Other information

Dispose of in compliance with local and national regulations. Avoid release to the environment.

SECTION 14: Transport information

Dangerous goods

No

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

IMDG Marine pollutant

No.

Comments

The product is not classified as hazardous to the environment.

14.6. Special precautions for user

Special safety precautions for user

Not determined.

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

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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.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled. H331 Toxic if inhaled.

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.

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

Product specifications by manufacturer

SDSs for product components

EH40/2005 Workplace exposure limits (4th ed, 2020)

GESTIS International Limit Values database

Abbreviations and acronyms used

DNEL: Derived No-Effect Level

HTP: Concentrations known to be Hazardous.

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No-Effect Concentration

vPvB: very Persistent and very Bioaccumulative substance

Information added, deleted or

revised

10.04.2024: Classification and labelling changed. Product name changed (previous product name NT Norflam Facade). Transport information changed.

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.