

## THERMOFLUX CLEAR

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

#### 1.1. Product identifier

**Product name** : THERMOFLUX CLEAR  
**Registration number REACH** : Not applicable (article)  
**Product type REACH** : Article

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

##### 1.2.1 Relevant identified uses

Professional use  
Thermofit heat-shrinkable polymeric products (excluding solder sleeves)

##### 1.2.2 Uses advised against

No uses advised against known

#### 1.3. Details of the supplier of the Product Safety Information Sheet:

##### Supplier of the safety data sheet

Novatio\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 25 76 40  
✉ +32 14 22 02 66  
info@novatio.be  
\*NOVATIO is a registered trademark of Novatech International N.V.

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
✉ +32 14 85 97 38  
info@novatech.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

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

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

#### 2.2. Label elements

Labelling does not apply to articles

#### 2.3. Other hazards

Heated product causes skin burns  
Heated product causes eye burns

### SECTION 3: Composition/information on ingredients

This article does not contain any notifiable substances

This article does not contain a substance of very high concern (SVHC) in accordance with Article 59(1) of Regulation (EC) No 1907/2006 at a concentration above 0,1 % (w/w)

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General:

If you feel unwell, consult a doctor/medical service.

##### After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

##### After skin contact:

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If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. In case of burns: Wash immediately with plenty of water for 30 minutes or shower. Cut clothing; never remove burnt clothing from the wound. Do not give any pain medication. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

#### After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service. In case of burns: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

### 4.2.1 Acute symptoms

#### After inhalation:

ON OVERHEATING: Irritation of the respiratory tract. Coughing. Headache. Nausea. Dizziness.

#### After skin contact:

If molten: burns.

#### After eye contact:

If molten: burns. ON OVERHEATING: Irritation of the eye tissue. Redness of the eye tissue.

#### After ingestion:

No effects known.

### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.  
Major fire: Class B foam (not alcohol-resistant).

#### 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.  
Major fire: Water; risk of puddle expansion.

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

On burning: release of toxic and corrosive gases/vapours e.g.: phosphorus oxides, nitrous vapours, hydrogen bromide, hydrogen chloride, hydrogen fluoride, sulphur oxides, carbon monoxide - carbon dioxide. On heating: release of toxic/corrosive/combustible gases/vapours (formaldehyde, acetaldehyde, acetic acid vapours).

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).

#### Suitable protective clothing

See section 8.2

### 6.2. Environmental precautions

No data available

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

Pick-up the material. If melted: allow liquid to solidify before taking it up. Start cleanup only if spill has cooled completely. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See section 13.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Observe normal hygiene standards. Remove contaminated clothing immediately. Stop heating immediately if the product bubbles, chars or shows other signs of degradation. For products containing a thermochromic temperature indicator, discontinue heating after the color changes.

### 7.2. Conditions for safe storage, including any incompatibilities

#### 7.2.1 Safe storage requirements:

Meet the legal requirements. Store in a dry area. Keep only in the original container.

#### 7.2.2 Keep away from:

Heat sources.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

Not applicable

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

##### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

#### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 Threshold values

If applicable and available it will be listed below.

#### 8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2. Exposure controls

#### 8.2.1 Appropriate engineering controls

On heating: work under exhaust/with respiratory protection.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

##### a) Respiratory protection:

Insufficient ventilation: wear respiratory protection.

##### b) Hand protection:

Protective gloves against thermal risks (heat and/or fire) (EN 407).

##### c) Eye protection:

Safety glasses (EN 166).

##### d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

#### 8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Solid in various shapes
Odour	Odourless
Odour threshold	Not applicable
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	Not applicable (article)
Flammability	Not classified as flammable
Log Kow	Not applicable (article)
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable
Melting point	Not applicable
Boiling point	Not applicable
Relative vapour density	Not applicable

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Vapour pressure	Not applicable
Solubility	Water ; insoluble
Relative density	Not applicable
Absolute density	Not applicable
Decomposition temperature	No data available in the literature
Auto-ignition temperature	Not applicable (article)
Flash point	Not applicable (article)
pH	Not applicable

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

On heating: release of toxic/corrosive/combustible gases/vapours (formaldehyde, acetaldehyde, acetic acid vapours). On burning: release of toxic and corrosive gases/vapours e.g.: phosphorus oxides, nitrous vapours, hydrogen bromide, hydrogen chloride, hydrogen fluoride, sulphur oxides, carbon monoxide - carbon dioxide.

## SECTION 11: Toxicological information

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

#### 11.1.1 Test results

#### Acute toxicity

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No (test)data available

#### Corrosion/irritation

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No (test)data available

#### Respiratory or skin sensitisation

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No (test)data available

#### Specific target organ toxicity

THERMOFLUX CLEAR

No (test)data available

#### Mutagenicity (in vitro)

THERMOFLUX CLEAR

No (test)data available

#### Mutagenicity (in vivo)

THERMOFLUX CLEAR

No (test)data available

#### Carcinogenicity

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No (test)data available

#### Reproductive toxicity

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No (test)data available

### **Toxicity other effects**

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No (test)data available

### **Chronic effects from short and long-term exposure**

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No effects known.

### **11.2. Information on other hazards**

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

### **12.1. Toxicity**

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No (test)data available

### **Conclusion**

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

### **12.2. Persistence and degradability**

#### **Water**

Biodegradability in water: no data available

### **12.3. Bioaccumulative potential**

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#### **Log Kow**

Method	Remark	Value	Temperature	Value determination
	Not applicable (article)			

### **Conclusion**

No bioaccumulation data available

### **12.4. Mobility in soil**

No (test)data on mobility of the component(s) available

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

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

### **12.6. Endocrine disrupting properties**

No evidence of endocrine disrupting properties

### **12.7. Other adverse effects**

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#### **Greenhouse gases**

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

#### **Ozone-depleting potential (ODP)**

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **13.1.1 Provisions relating to waste**

##### **European Union**

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

07 02 13 (wastes from the MFSU of plastics, synthetic rubber and man-made fibres: waste plastic). Depending on branch of industry and production process, also other waste codes may be applicable.

#### **13.1.2 Disposal methods**

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### **13.1.3 Packaging/Container**

No data available

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## SECTION 14: Transport information

### Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)	Hazard identification number	
	Class	
	Classification code	
14.4. Packing group	Packing group	
	Labels	
14.5. Environmental hazards	Environmentally hazardous substance mark	no
14.6. Special precautions for user	Special provisions	
	Limited quantities	
14.7. Maritime transport in bulk according to IMO instruments	Annex II of MARPOL 73/78	Not applicable

## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
0 %	

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

#### National legislation Belgium

No data available

#### National legislation The Netherlands

Waterbezuwaarlijkheid	Not applicable (article)
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#### National legislation France

No data available

#### National legislation Germany

WGK	nwg; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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#### National legislation Austria

No data available

#### National legislation United Kingdom

No data available

#### Other relevant data

No data available

### 15.2. Chemical safety assessment

No chemical safety assessment is required.

## SECTION 16: Other information

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic

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PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

The information in this Product Safety Information Sheet informs on the properties of certain substances, preparations or mixtures incorporated in the article. The Product Safety Information Sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this Product Safety Information Sheet does not release the user from the obligation to take all measures dictated by common sense, regulations, the guidelines of the manufacturer and recommendations or which are necessary and/or useful based on the real applicable circumstances. The Product Safety Information Sheet constitutes merely of guidelines and recommendations. The information in this Product Safety Information Sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. New Product Safety Information Sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the Product Safety Information Sheet, the information does not apply to other, even similar products. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This Product Safety Information Sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this Product Safety Information Sheet is subject to the licence and liability limiting conditions as stated in the agreement between BIG and the manufacturer of this product or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.