Product Safety Information Sheet



According to the requirements in Article 32 of Regulation (EC) No. 1907/2006

TOPFLUX

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

1.1. Product identifier

Product name Registration number REACH Product type REACH : TOPFLUX : Not applicable (article)

: Article with substance/mixture as integral part

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

1.2.1 Relevant identified uses

Professional use Heat-shrinkable interconnections with solder for high temperature wire

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@tec7.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

In normal conditions of use, the components cannot be released because of the form in which the article or preparation is placed on the market

Name	CAS No	Conc. (C)	Classification according to CLP	Note	Remark
REACH Registration No	EC No				
lead massive: [particle diameter 1mm]	7439-92-1	0.10% <c<93< td=""><td>Repr. 1A; H360FD</td><td>(1)(2)(4)(10)</td><td>Constituent</td></c<93<>	Repr. 1A; H360FD	(1)(2)(4)(10)	Constituent
	231-100-4	%	Lact. ; H362		

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(4) Enumerated in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No. 1907/2006) (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

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SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Rinse with water. Take victim to a doctor if irritation persists. In case of burns: Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Do not tear off solidified product from the skin. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

After eye contact:

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists. In case of burns: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist. After ingestion:

Not applicable.

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

4.2.1 Acute symptoms

After inhalation:

ON OVERHEATING: Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Nausea. Dizziness. Headache. **After skin contact:** If molten: burns. **After eve contact:**

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

After ingestion:

Not applicable.

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: formation of metallic fumes. On burning: release of toxic and corrosive gases/vapours (hydrofluoric acid, carbon monoxide - carbon dioxide). On heating: release of toxic/corrosive/combustible gases/vapours (formaldehyde, acetaldehyde, 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. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

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 heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released product.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store at room temperature. Store in a dry area. Meet the legal requirements.

- 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:

Respiratory protection not required in normal conditions. On heating: wear respiratory equipment.

b) Hand protection:

Insulated gloves.

c) Eye protection:

Safety glasses.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Solid	
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	Non-flammable	
Log Kow	Not applicable (article)	

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Dynamic viscosity	Not applicable	
Kinematic viscosity	Not applicable	
Melting point	Not applicable	
Boiling point	Not applicable	
Evaporation rate	No data available	
Relative vapour density	Not applicable	
Vapour pressure	Not applicable	
Solubility	Water ; insoluble	
Relative density	Not applicable	
Decomposition temperature	> 250 °C	
Auto-ignition temperature	Not applicable (article)	
Flash point	Not applicable (article)	
Explosive properties	No chemical group associated with explosive properties	
Oxidising properties	No chemical group associated with oxidising properties	
рН	Not applicable	

9.2. Other information

Solidification (freezing) point Not applicable

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: formation of metallic fumes. On burning: release of toxic and corrosive gases/vapours (hydrofluoric acid, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

TOPFLUX No (test)data available

Corrosion/irritation

TOPFLUX No (test)data available

Respiratory or skin sensitisation

TOPFLUX No (test)data available

Specific target organ toxicity

TOPFLUX No (test)data available

Mutagenicity (in vitro)

TOPFLUX No (test)data available

Mutagenicity (in vivo)

<u>TOPFLUX</u>

No (test)data available

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Carcinogenicity

<u>TOPFLUX</u>

No (test)data available

Reproductive toxicity

TOPFLUX No (test)data available

Toxicity other effects

<u>TOPFLUX</u>

No (test)data available

SECTION 12: Ecological information

12.1. Toxicity

TOPFLUX

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

Biodegradability in water: no data available

12.3. Bioaccumulative potential

<u>TOPFLUX</u>

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 components 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. Other adverse effects

<u>TOPFLUX</u>

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

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

. 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).

06 04 05* (metal-containing wastes other than those mentioned in 06 03: wastes containing other heavy metals). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

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SECTION 14: Transport information

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

Not subject
no
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

v	OC content	Remark
0	%	

REACH Candidate list

Contains component(s) included in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No 1907/2006)

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Service Se	
	Conditions of restriction
lead massive: [particle diameter ≥1mm]	 Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30: 1. Shall not be placed on the market, or used, as substances, as constituents of other substances, or, in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: "Restricted to professional users". By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: motor fuels which are covered by Directive 98/70/EC, mineral oil products intended for use as fuel in mobile or fixed combustion plants, fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2 of Appendix 11, the derogation shall apply until the said date.
lead massive: [particle diameter ≥1mm]	 Shall not be placed on the market or used in any individual part of jewellery articles if the concentration of lead (expressed as metal) in such a part is equal to or greater than 0,05 % by weight. For the purposes of paragraph 1: "jewellery articles" shall include jewellery and imitation jewellery articles and hair accessories, including:
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 (ii) "any individual part" shall include the materials from which the jewellery is made, as well as the individual components of the jewellery articles. 3. Paragraph 1 shall as apply to individual parts when placed on the market or used for jewellery-making. 4. By way of derogation, paragraph 1 shall not apply to: (a) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EEC (†); (b) internal components of watch timepieces inaccessible to consumers; (c) ons-synthetic or reconstructed previous and semiprecious stones (CN code 7103, as established by Regulation (EEC) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these substances; (d) enamels, defined as vitinfable matures resulting from the fusion, vitrification or sintering of minerials avitinfable matures resulting from the fusion, vitrification or sintering of minerials withfined by Regulation (EEC) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these substances; (d) enamels, defined as vitrifiable matures resulting from the fusion, vitrification or sintering of minerials witrifiable matures resulting from the fusion, vitrification or sintering of minerials witrifiable matures resulting from the fusion, vitrification or sintering of minerials meted at a temperature of at least 500 °C (*) OI 126, 29, 12.1969, p. 36. 5. By way of derogation, paragraph 1 shall not apply be investing structures and the migration of lead tronking the situation of the dividual general substances; (d) be associated as the investing from the situation of the situation of lead tronking the situation of lead trenking the situation of lead (paresead as metal) in those articles or accessible parts thereof may, during normal or reasonably foreseeable c	 1011	
- lead massive: [particle diameter 21mm] The substances listed in column 1 of the Table 1. Shall not be placed on the and of the Council (1*); - lead massive: [particle diameter 21mm] The substances listed in column 1 of the Table 1. Shall not be placed on the market after 1 November 2020 in any of the following: - lead massive: [particle diameter 21mm] The substances listed in column 1 of the Table 1. Shall not be placed on the substances in decing and of the concent and of the council of 18 une 2020 on the substances in decing and of the substances in the substan	 The substances listed in column 1 of the Table	as the individual components of the jewellery articles. 3. Paragraph 1 shall also apply to individual parts when placed on the market or used for jewellery-making. 4. By way of derogation, paragraph 1 shall not apply to: (a) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EC (F): (b) internal components of watch timepieces inaccessible to consumers; (c) non-synthetic or reconstructed precisous and semiprecisous stones (CN code 7103, as established by Regulation (EC) No 2558/87), unless they have been treated with lead or its compounds or mitures containing these substances: (c) enamels, defined as witrifiable mixtures resulting from the fusion, witrification or sintering of minera's methed at a temporature of at least 500 (C) (10) 12.36, 22, 12.1969, p. 36. S. By way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time before 9 October 2013 and jewellery articles placed on the market for the first time before 9 October 2013 and jewellery articles placed on the market for the first time before 9 October 2013 and jewellery articles placed on the market (c) and placed on the market or used in articles vapulate to the general public, if the concentration of lead (appressed as metal) in those articles or accessible parts thereof is equal to or greater than 0.05 % by weight, and those articles or accessible parts thereof is and anticle or any such accessible parts thereof is equal to or greater than 0.05 % by weight, and those articles or accessible parts thereof is and the accessible for annal or reasonably foresceable conditions of use coll called in the most by children. That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any such accessible parts thereof is equal to the onside of normal or reasonably foresceable conditions of use of the article. For the purposes of this paragraph 1, its considered that an article vaterated with lead or
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(d) wall-to-wall carpets and textile floor coverings for indoor use, rugs and runners.
 Paragraph 1 shall not apply to clothing, related accessories, textiles other than clothing, or
footwear within the scope of Regulation (EU) 2016/425 of the European Parliament and of
the Council (*) or Regulation (EU) 2017/745 of the European Parliament and of the Council
(**).
5. Paragraph 1(b) shall not apply to disposable textiles. 'Disposable textiles' means textiles
that are designed to be used only once or for a limited time and are not intended for
subsequent use for the same or a similar purpose.
6. Paragraphs 1 and 2 shall apply without prejudice to the application of any stricter
restrictions set out in this Annex or in other applicable Union legislation.
7. The Commission shall review the exemption in paragraph 3(d) and, if appropriate, modify
that point accordingly.
(*) Regulation (EU) 2016/425 of the European Parliament and of the Council of of 9 March
2016 on personal protective equipment and repealing Council Directive 89/686/EEC (OJ L
81, 31.3.2016, p. 51).
(**) Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017
on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and
Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC
(OL L 117, 5.5.2017, p. 1).

National legislation Belgium

No data available

National legislation The Netherlands Waterbezwaarlijkheid Not applicable (article)

National legislation France

No data available

National legislation Germany

WGK

Not applicable (article)

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

Full text of any H-statements referred to under heading 3: H360FD May damage fertility. May damage the unborn child. H362 May cause harm to breast-fed children.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
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
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 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 out to the licence and liability limiting conditions as stated in the agreement between BIG and the

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