

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

1.1 Product identifier

Trade name: Terlux®

This safety data sheet pertains to the following products:

Terlux® 2802

Terlux® 2802 BLTR37219

Terlux® 2802 BLTR79587

Terlux® 2802 GNTR37491

Terlux® 2802 Q26

Terlux® 2802 Q434

Terlux® 2802 Q434 TR37158

Terlux® 2802 Q453

Terlux® 2802 Q492

Terlux® 2802 RDTR88489

Terlux® 2802 TR28348

Terlux® 2802 TR35984

Terlux® 2802 TR36630

Terlux® 2802 TR36840

Terlux® 2802 TR37028

Terlux® 2802 TR77742

Terlux® 2812

Terlux® 2812 Q434

Terlux® 2812 Q464

Terlux® 2812 Q492

Terlux® 2812 TL37080

Terlux® 2812 TR28348

Terlux® 2812 TR77742

Terlux® 2812 TR77852

Terlux® HD 2802

Terlux® HD 2812

Terlux® HD 2822

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

General use: Polymer

Basic material for chemical industry processing

1.3 Details of the supplier of the safety data sheet

Company name: INEOS Styrolution Group GmbH

Street/POB-No.: Mainzer Landstraße 50

Postal Code, city: 60325 Frankfurt

Germany

WWW: www.styrolution.com

E-mail: INSTY.emea@ineos.com

Department responsible for information:

Infopoint, Telephone: +49 (0) 2133 - 9309- 168

E-mail: INSTY.emea@ineos.com

1.4 Emergency telephone number

Telephone: +44 (0) 1235 239 670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

2.3 Other hazards

Floors may become slippery.

The melted product can cause severe burns.

Swallowing may cause gastrointestinal irritation and pain of guts.

In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.

Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Polymer

CAS No. 9010-94-0 Butadiene-Methyl methacrylate-styrene-acrylonitrile copolymer
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,3-butadiene, ethenylbenzene
and 2-propenenitrile

Additional information: Preparation does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation: Provide fresh air. If the symptoms persist, seek medical attention.

Following skin contact: The melted product can cause severe burns.
Do not remove the product from the skin without medical assistance.
After contact with molten product, cool skin area rapidly with cold water. Consult physician.

After eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Consult an eye specialist in the event of irritation.

After swallowing: Rinse mouth and drink large quantities of water. Never give an unconscious person anything through the mouth.
In the event of discomfort seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Dust: Can cause skin, eye and respiratory tract irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Decontamination, vital functions

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Smoke, styrene, Methyl methacrylate, carbon monoxide and carbon dioxide (CO₂).

In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Hazchem-Code: -

Cool endangered containers with water jetspray.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

Wear personal protection equipment. Do not breathe dust.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Avoid generation of dust. Remove all sources of ignition.

Collect dry and place in appropriate containers for disposal. Subsequent cleaning. (Water)

Additional information:

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe dust.

In the case of the formation of dust: Withdraw by suction.

Molten material: Avoid contact with the substance.

Precautions against fire and explosion:

Take precautionary measures against static discharges. Keep away from open flames, hot surfaces and sources of ignition. Use grounding equipment. Use explosion-proof equipment and non-sparking tools/utensils.

In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storerooms and containers:

Store in a well-ventilated place. Keep container tightly closed.

Protect against heat /sun rays.

Protect from moisture contamination.

Further details:

Special danger of slipping by leaking/spilling product.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
	Terlux®	Great Britain: WEL-TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m ³ (Dust limit value, respirable fraction)
		Ireland: 8 hours	10 mg/m ³ (Dust limit value, inhalable fraction)
		Ireland: 8 hours	4 mg/m ³ (Dust limit value, respirable fraction)
80-62-6	Methyl methacrylate	Europe: IOELV: STEL	100 ppm
		Europe: IOELV: TWA	50 ppm
		Great Britain: WEL-STEL	416 mg/m ³ ; 100 ppm
		Great Britain: WEL-TWA	208 mg/m ³ ; 50 ppm
		Ireland: 15 minutes	100 ppm
		Ireland: 8 hours	50 ppm
106-99-0	1,3-Butadiene	Europe: BOELV: TWA	2.2 mg/m ³ ; 1 ppm
		Great Britain: WEL-TWA	2.2 mg/m ³ ; 1 ppm
		Ireland: 8 hours	2.2 mg/m ³ ; 1 ppm
107-13-1	Acrylonitrile	Great Britain: WEL-TWA	4.4 mg/m ³ ; 2 ppm (may be absorbed through the skin)
		Ireland: 8 hours	4.5 mg/m ³ ; 2 ppm (may be absorbed through the skin)
100-42-5	Styrene	Great Britain: WEL-STEL	1080 mg/m ³ ; 250 ppm
		Great Britain: WEL-TWA	430 mg/m ³ ; 100 ppm
		Ireland: 15 minutes	170 mg/m ³ ; 40 ppm
		Ireland: 8 hours	85 mg/m ³ ; 20 ppm

8.2 Exposure controls

Make sure that the processing machines are well equipped with suction and ventilation systems. Additional controls are not normally necessary when handling the polymer.

Thermal extrusion: Provide local exhaust ventilation to ensure that the workplace exposure limit is not exceeded.

Use of respiratory protection may be necessary during maintenance activities.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A-P2 according to EN 14387.

Hand protection: Protective gloves according to EN 374.
Protective gloves made of fabric or leather.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
In case of melting: Impervious heat protective gloves according to EN 407
Glove material: Leather
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing, boots or Wear protective shoes.

General protection and hygiene measures:

Molten material: Avoid contact with skin.

Do not breathe vapours. Keep away from sources of ignition.

Wash hands before breaks and after work.

In case of dust formation: Particular danger of slipping on spilled product on the ground.

Safety shower and eye wash station should be easily accessible to the work area.

Environmental exposure controls

Do not allow to penetrate into soil, waterbodies or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Colour: transparent, varying colours
Odour:	weak characteristic
Odour threshold:	No data available
pH:	Not applicable
Melting point/freezing point:	> 100 °C (DIN EN ISO 306)
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	Not highly flammable.
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 20 °C: approx. 1.08 g/cm ³ (DIN 53479)
Water solubility:	insoluble

Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not self-igniting
Decomposition temperature:	> 300 °C
Viscosity, kinematic:	No data available
Explosive properties:	In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.
Oxidizing characteristics:	Not oxidising.

9.2 Other information

Bulk density: at 20 °C: 600 kg/m³ (DIN 53466)

SECTION 10: Stability and reactivity

10.1 Reactivity

refer to 10.3

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.
Avoid dust formation.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

When greatly overheated, material may release hazardous decomposition products: monomers, hydrocarbons, gases/vapours, cyclic low molecular weight oligomers, carbon monoxide and carbon dioxide.

Thermal decomposition: > 300 °C

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects:	Acute toxicity (oral): Lack of data. No evidence of acute toxicity. Acute toxicity (dermal): Lack of data. Acute toxicity (inhalative): Lack of data. Skin corrosion/irritation: Lack of data. Dusts: Can cause skin, eye and respiratory tract irritation. Serious eye damage/irritation: Lack of data. Dusts: Can cause skin, eye and respiratory tract irritation. Sensitisation to the respiratory tract: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect. Skin sensitisation: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect. Germ cell mutagenicity/Genotoxicity: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect. Carcinogenicity: Lack of data. No indications of human carcinogenicity exist. Reproductive toxicity: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect. Effects on or via lactation: Lack of data. Specific target organ toxicity (single exposure): Lack of data. Dusts: Irritating to eyes, respiratory system and skin. Specific target organ toxicity (repeated exposure): Lack of data. Chronic toxic effects are not expected. The product has not been tested. The statement is derived from products of similar structure or composition. Aspiration hazard: Lack of data.
Other information:	When handled appropriately, even after long years of experience with this product, no adverse health effects are known.

Symptoms

Dust: Can cause skin, eye and respiratory tract irritation.
The melted product can cause severe burns.

In case of ingestion:
Swallowing may cause gastrointestinal irritation and pain of guts.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: no evidence of aquatic toxicity

12.2 Persistence and degradability

Further details: Biodegradation: Product is not readily biodegradable.

Effects in sewage plants: The insoluble part can be precipitated mechanically in suitable sewage treatment plants.

12.3 Bioaccumulative potential

To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments.

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 07 02 99 = wastes from the MFSU of plastics, synthetic rubber and man-made fibres
MFSU = manufacture, formulation, supply and use

Recommendation: With due observance of the regulations laid down by the local authorities, this must be brought to a suitable incineration plant/waste disposal site.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Great Britain**

Hazchem-Code:

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No data available

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information**Further information**

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL: Occupational Exposure Limit Value
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
EU: European Union
MFSU: Manufacture, formulation, supply and use
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TLV: Threshold Limit Value
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Reason of change: General revision

Date of first version: 27/2/2013

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.