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STYROLUTION Terluran® ABS Granulate, Natural

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1. Identification of the substance/mixture and of the company/undertaking

Product identifier

INEOS

Trade name:

Terluran® ABS Granulate, Natural

This safety data sheet pertains to the following products: Terluran® BX19000 Terluran® EGP-7 Terluran® GP-22 G4 Terluran® GP-22 NR Terluran® GP-22 Q551 Terluran® GP-22 Q552 Terluran® GP-25 NR Terluran® GP-35 NR Terluran® HG-26 Terluran® HI-10 NR Terluran® HI-10 Q483 Terluran® HI-10 Q520 NR Terluran® HI-10 Q551 Terluran® HI-12 NR Terluran® Nano

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

General use:	Polymer
	For industrial processing only

Details of the supplier of the safety data sheet

Company name:	INEOS Styrolution APAC Pte Ltd.	
Street/POB-No.:	111 Somerset Road	
Postal Code, city:	#08-01/02 TripleOne Somerset, SG	
	Singapore 238164	
WWW:	www.styrolution.com	
E-mail:	INSTY.asia@ineos.com	
Telephone:	+65 6933 8350	
Telefax:	+65 6933 8355	
Department responsible for	information:	
	Infongint Tolophono: + 65 (0) 6022	0272

Infopoint, Telephone: + 65 (0) 6933 - 8372 E-mail: INSTY.asia@ineos.com

Emergency telephone number

Telephone: +86 512 8090 3042 (Country); + 65 3158 1074 (regional)

2. Hazards identification

Classification of the substance or mixture

GHS classification

This mixture is classified as not hazardous.

Label elements

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Hazard statements: not applicable

Precautionary statements: not applicable

Other hazards

Dust: Can cause skin, eye and respiratory tract irritation. Fine dust: May form explosible dust-air mixture if dispersed. In case of dust formation: Particular danger of slipping on spilled product on the ground. The melted product can cause severe burns. Swallowing may cause gastrointestinal irritation and pain of guts.

3. Composition/information on ingredients

Mixtures

Chemical characterisation:	Polymer mixture:	
	CAS No. 9003-56-9:	> 98 % Styrene-acrylonitrile-butadiene copolymer
	CAS No. 100-42-5:	< 0.1 % Styrene
Additional information:	The product does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation.	

4. First aid measures

General information:	Immediately remove any contaminated clothing, shoes or stockings.
In case of inhalation:	Provide fresh air. Put victim at rest and keep warm. Seek medical attention
Following skin contact:	The melted product can cause severe burns. Do not attempt to remove molten product, or molten product that has cooled, from skin without medical assistance. After contact with molten product, cool skin area rapidly with cold water. Consult physician.
After eye contact:	In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist in the event of irritation.
After swallowing:	Rinse mouth with water. Drink one or two glasses of water. Never give an unconscious person anything through the mouth. seek medical attention

Most important symptoms and effects, both acute and delayed

Dust: Skin irritation, Eye irritations and redness

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Decontamination, vital functions

5. Firefighting measures

Extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

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Special hazards arising from the substance or mixture

In case of fire may be liberated: carbon monoxide and carbon dioxide (CO2). In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.

Advice for firefighters

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Special protective equipment for firefighters:

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

Additional information: 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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear personal protection equipment. Do not breathe dust.

Environmental precautions

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

Methods and material for containment and cleaning up

Avoid generation of dust. Remove all sources of ignition.

Take up mechanically. Collect in closed containers for disposal.

Additional information: Special danger of slipping by leaking/spilling product.

7. Handling and storage

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 sources of ignition. Use grounding equipment. Use explosion-proof equipment and non-sparking tools/utensils. Avoid open flames. May form explosible dust-air mixture if dispersed.

Storage

Requirements for storerooms and containers:

Store in a well-ventilated place. Keep container tightly closed. Protect against heat /sun rays. Protect from moisture contamination. according to Singapore Standard SS 586 - Part 3 - 2008

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8. Exposure controls/personal protection

Control parameters

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Additional information: The product contains very low levels of residual monomers and process chemicals (mainly styrene and ethylbenzene and very low levels of acrylonitrile, vinylcyclohexene, butadiene) that may be evolved during thermal processing, along with possible decomposition products. As the identity and levels of these impurities evolved will depend upon the processing conditions (temperature etc.) it is the responsibility of the user to determine the adequacy of any protection or safety measures.

Exposure controls

Provide good ventilation in the work area. 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. See also information in chapter 7, section storage.

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 safety shoes.	
General protection and hygiene measures:		
	Molten material: Avoid contact with skin.	
	Avoid breathing dust and 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.

Environmental exposure controls

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

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: pellets Colour: natural colour (whitish)
Odour:	weak, characteristic
Odour threshold:	No data available
pH:	Not applicable

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Melting point/freezing point: Initial boiling point and boiling range: Flash point/flash point range: Evaporation rate: Flammability: Explosion limits: Vapour pressure: Vapour density: Density:	 > 100 °C (DIN EN ISO 306) No data available Not applicable No data available Not highly flammable. No data available No data available No data available at available at 20 °C: approx. 1.04 g/cm³ (DIN 53479)
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature: Thermal decomposition:	not self-igniting approx. 300 °C To avoid thermal decomposition, do not overheat.

Additional information

Viscosity:	No data available
Explosive properties:	In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.
Oxidizing characteristics:	not oxidising
Bulk density:	at 20 °C: approx. 600 kg/m³ (DIN 53466)

10. Stability and reactivity		
Reactivity:	No data available	
Chemical stability:	Stable under recommended storage conditions.	
Possibility of hazardous re	n case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.	
Conditions to avoid:	Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation.	
Incompatible materials:	Strong oxidizing agents	
Hazardous decomposition	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:	approx. 300 °C To avoid thermal decomposition, do not overheat.	

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11. Toxicological information

Information on toxicological effects

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Toxicological effects:	Acute toxicity (oral): Lack of data. No evidence of acute toxicity.
	Acute toxicity (dermal): Lack of data. No evidence of acute toxicity.
	Acute toxicity (inhalative): Lack of data. No evidence of acute toxicity.
	Skin corrosion/irritation: Lack of data. Dust: Can cause skin, eye and respiratory tract irritation. Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.
	Serious eye damage/irritation: Lack of data. Dust: Can cause skin, eye and respiratory tract irritation. Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.
	Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met. The chemical structure of the polymer does not suggest a specific alert for such an effect.
	Skin sensitisation: Based on available data, the classification criteria are not met. The chemical structure of the polymer does not suggest a specific alert for such an effect.
	Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met. The chemical structure of the polymer does not suggest a specific alert for such an effect.
	Carcinogenicity: Based on available data, the classification criteria are not met. No indications of human carcinogenicity exist.
	Reproductive toxicity: Based on available data, the classification criteria are not met. 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. Dust: Can cause skin, eye and respiratory tract irritation. Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.
	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 appropiately, 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.

Thermal treatment, Processing: Irritating to eyes, respiratory system and skin. In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

12. Ecological information

Toxicity

Aquatic toxicity:

no evidence of aquatic toxicity

Effects in sewage plants: In sewage treatment plants it may be separated mechanically.

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Persistence and degradability

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Further details:

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Biodegradation: Product is not readily biodegradable. The product is likely to persist in the environment.

Mobility in soil

No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Waste treatment methods

Product

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.

Package

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

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

Sea transport (IMDG)

Proper shipping name: Not restricted Marine pollutant: no

Air transport (IATA)

Proper shipping name:

Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - Korea

Industrial Safety and Health Act

not applicable

Chemicals Control Act not applicable

National regulations - Japan

Fire Service Act: Designated flammable goods

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Further regulations, limitations and legal requirements

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Abbreviations and acronyms:

STYROLUTION

No data available

16. Other information

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 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 EQ: Excepted quantities IATA: International Air Transport Association IATA-DGR: International Air Transport Association – Dangerous Goods Regulations 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 MFSU: Manufacture, formulation, supply and use **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 TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative WEL: Workplace Exposure Limit General revision Reason of change: Date of first version: 30/1/2013

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.

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