

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

1.1 Product identifier

Trade name: Luran® SAN Granulate Transparent
This safety data sheet pertains to the following products:
Luran® 348Q TR77815
Luran® 348Q TR77856
Luran® 358N TR00004
Luran® 358N TR77741
Luran® 358N TR77850
Luran® 368R TR00004
Luran® 368R TR77741
Luran® 368R TR77784
Luran® 368R TR77851
Luran® 378P TR77768
Luran® 378P TR77769
Luran® 388S TR77770
Luran® HD 20 TR64000

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 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: infopoint.asia@styrolution.com
Telephone: +65 6933 8350
Telefax: +65 6933 8355
Dept. responsible for information:
Infopoint, Telephone: + 65 (0) 6933 - 8372
E-mail: infopoint.asia@styrolution.com

1.4 Emergency telephone number

Telephone: + 65 (0) 3158 - 1074

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

Dust: Can cause skin, eye and respiratory tract irritation.
In case of dust formation (Fine dust): Danger of dust explosion
The melted product can cause severe burns.
Swallowing may cause gastrointestinal irritation and pain of guts.

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Polymer mixture:

CAS No. 9003-54-7 Styrene-acrylonitrile copolymer

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

General information: Immediately remove any contaminated clothing, shoes or stockings.

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: Seek medical attention.
Never give an unconscious person anything through the mouth.
Drink one or two glasses of water.
In the event of discomfort seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Dust: Skin irritation, eye irritations and redness

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 fog, foam, extinguishing powder, carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

High power water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Smoke, hydrogen cyanide, carbon monoxide and carbon dioxide (CO₂).

In case of dust formation (Fine dust): danger of dust explosion

5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

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): Danger of dust explosion

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.

Storage class: 11 = Combustible solids

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information: The product contains very low levels of residual monomers and process chemicals (styrene, ethylbenzene and acrylonitrile) 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.

8.2 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.

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.
Glove material: Nitrile rubber - Layer thickness: 0.11 mm.
Breakthrough time: >480 min.
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.
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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Form: solid, granulate
Colour: colourless

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)
and Regulation (EU) No 2015/830

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Odour:	weak characteristic
Odour threshold:	no data available
pH value:	no data available
Melting point/freezing point:	> 100 °C (DIN EN ISO 306)
Initial boiling point and boiling range:	no data available
Flash point/flash point range:	> 400 °C
Evaporation rate:	no data available
Flammability:	Not highly flammable.
Explosion limits:	no data available
Vapour pressure:	not applicable
Vapour density:	no data available
Density:	at 20 °C: approx. 1.05 - 1.20 g/cm ³ (DIN 53479)
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	not applicable
Auto-ignition temperature:	Not self-igniting
Thermal decomposition:	approx. 320 °C
Viscosity, dynamic:	not relevant
Explosive properties:	In case of dust formation (Fine dust): Danger of dust explosion
Oxidizing characteristics:	not oxidising

9.2 Other information

Ignition temperature:	> 400 °C (DIN 51794)
Bulk density:	at 20 °C: approx. 600 kg/m ³ (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

Dust may form explosive mixtures with air.

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

In case of fire may be liberated: Smoke, hydrogen cyanide, carbon monoxide and carbon dioxide (CO₂).

Thermal decomposition: approx. 320 °C

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects:	<p>Acute toxicity (oral): Lack of data. No evidence of acute toxicity.</p> <p>Acute toxicity (dermal): Lack of data. No evidence of acute toxicity.</p> <p>Acute toxicity (inhalative): Lack of data. No evidence of acute toxicity.</p> <p>Skin corrosion/irritation: Lack of data.</p> <p>Dust: Can cause skin, eye and respiratory tract irritation.</p> <p>Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.</p> <p>Eye damage/irritation: Lack of data.</p> <p>Dust: Can cause skin, eye and respiratory tract irritation.</p> <p>Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.</p> <p>Sensitisation to the respiratory tract: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect.</p> <p>Skin sensitisation: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect.</p> <p>Germ cell mutagenicity/Genotoxicity: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect.</p> <p>Carcinogenicity: Lack of data. No indications of human carcinogenicity exist.</p> <p>Reproductive toxicity: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Lack of data.</p> <p>Dust: Can cause skin, eye and respiratory tract irritation.</p> <p>Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.</p> <p>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.</p> <p>Aspiration hazard: Lack of data.</p>
Other information:	<p>When handled appropriately, even after long years of experience with this product, no adverse health effects are known.</p>

Symptoms

Dust: Can cause skin, eye and respiratory tract irritation.
The melted product can cause severe burns.
Thermal treatment, Processing: vapours: Irritating to eyes, respiratory system and skin.
In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

SECTION 12: Ecological information

12.1 Toxicity

12.2. Persistence and degradability

Further details: Biodegradation: Product is not readily biodegradable.

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

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:

not applicable

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

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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 73/78 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 - Korea

Industrial Safety and Health Act

not applicable

Chemicals Control Act

not applicable

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Reason of change: Changes in section 1: Company name

General revision

Date of first version: 6/3/2013

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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.