

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

Product identifier

Trade name: Luran® S Color
This safety data sheet pertains to the following products:
Luran® S 776S GR00148
Luran® S 776S GR82887P
Luran® S 776SE BG69235
Luran® S 777K UV GR31419

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

General use: Polymer
Basic material for chemical industry processing

Details of the supplier of the safety data sheet

Company name: Styrolution South East Asia 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
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Dept. responsible for information:
Infopoint, Telephone: + 65 (0) 6933 - 8372
E-mail: infopoint.asia@styrolution.com

Emergency telephone number

Telephone: + 65 (0) 3158 - 1074

2. Hazards identification

Classification of the substance or mixture

GHS classification

This mixture is classified as not hazardous.

Label elements

Hazard statements: not applicable

Precautionary statements: not applicable

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.

3. Composition / information on ingredients

Mixtures

Chemical characterisation: Polymer mixture:

- CAS No. 9003-54-7: Styrene-acrylonitrile copolymer
- CAS No. 26299-47-8: Butyl acrylate-styrene-acrylonitrile copolymer
- CAS No. 13463-67-7: Titanium dioxide
- CAS No. 1333-86-4: Carbon

4. First aid measures

- 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.
After contact with molten product, cool skin area rapidly with cold water.
Burns caused by molten material must be treated clinically.
- After eye contact: IF IN EYES: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Seek medical treatment in case of troubles.
- After swallowing: Rinse mouth with water. Drink one or two glasses of water.
Never give an unconscious person anything through the mouth.

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

Extinguishing media which must not be used for safety reasons:

Full water jet

Special hazards arising from the substance or mixture

In case of fire may be liberated: hydrogen cyanide, Styrene, Acrylonitrile, carbon monoxide and carbon dioxide.

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

Advice for firefighters

Special protective equipment for firefighters:

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

Take up mechanically. Collect in closed containers for disposal.

Avoid generation of dust. Remove all sources of ignition. Provide adequate ventilation.

Additional information: Particular danger of slipping on spilled product on the ground.

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.

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

Storage

Requirements for storerooms and containers:

Store container tightly closed in a dry area. Protect from moisture contamination.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
	Luran® S Color	long-term	8 mg/m ³
1333-86-4	Carbon	long-term	4 mg/m ³
107-13-1	Acrylonitrile	long-term	1 mg/m ³
		short-term	2 mg/m ³
100-42-5	Styrene	long-term	50 mg/m ³
		short-term	100 mg/m ³
141-32-2	n-Butyl acrylate	long-term	25 mg/m ³

Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

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.
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: Protective gloves against heat according to EN 407.
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.
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.

9. Physical and chemical properties**Information on basic physical and chemical properties**

- Appearance: Form: solid: pellets
Colour: black
- Odour: weak characteristic
Odour threshold: no data available
- pH value: 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: > 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: no data available
- Water solubility: insoluble
- Partition coefficient: n-octanol/water: not applicable
- Auto-ignition temperature: not self-igniting
- Thermal decomposition: > 300 °C

Additional information

- Viscosity, dynamic: not relevant
- Explosive properties: Dust explosion risk at fine dust
- Oxidizing characteristics: not oxidising
- Ignition temperature: > 400 °C (DIN 51794)
- Bulk density: at 20 °C: approx. 600 kg/m³ (DIN 53466)

Additional information: Relative density: 1,07

10. Stability and reactivity

- Reactivity: No hazardous reaction when handled and stored according to provisions.
- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions: In case of dust formation (Fine dust): danger of dust explosion
- Conditions to avoid: Protect from excessive heat. Keep away from open flames, hot surfaces and sources of ignition.
Avoid dust formation.
- Incompatible materials: Strong oxidizing agents, strong acids
- Hazardous decomposition products: In case of fire may be liberated: hydrogen cyanide, Styrene, Acrylonitrile, carbon monoxide and carbon dioxide.
- Thermal decomposition: > 300 °C

11. Toxicological information

Information on toxicological effects

- Toxicological effects: Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Lack of data.
Eye damage/irritation: Lack of data.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.
- Other information:
- Acrylonitrile: Toxic by inhalation, in contact with skin and if swallowed.
May cause cancer. Suspected of damaging the unborn child.
Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.
- Styrene: Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure. lung damages
May be fatal if swallowed and enters airways.
Causes serious eye irritation. Causes skin irritation.
- n-Butyl acrylate: Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.

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.

General remarks

When handled appropriately, even after long years of experience with this product, no adverse health effects are known.

12. Ecological information**Toxicity**

Aquatic toxicity: No evidence of aquatic toxicity.

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

Persistence and degradability

Further details: Biodegradation: Product is biodegradable with difficulty.

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.

Contaminated packagingRecommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.**14. Transport information****USA: Department of Transportation (DOT)**

Proper shipping name: Not controlled under DOT

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 - China**

No data available

16. Other information

Uses advised against For toys and childcare articles

Reason of change: General revision (Regulation (EU) No 2015/830)

Date of first version: 24/3/2013

Department issuing data sheet

Contact person: see section 1: Dept. 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.