

## 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 UV GN36492

### 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  
Telefax: +65 6933 8355  
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

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 52829-07-9	Bis(2,2,6,6-Tetramethyl-4-piperidyl) sebacate	< 1 %	Eye Irrit. 2. Aquatic Chronic 2.

### 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.  
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 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.

### 5. Firefighting measures

#### Extinguishing media

Suitable extinguishing media:

Water fog, foam, extinguishing powder, carbon dioxide.

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: smoke, hydrogen cyanide, carbon monoxide and carbon dioxide (CO<sub>2</sub>).

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

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.

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

### Storage

Requirements for storerooms and containers:

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

Protect against heat /sun rays. Protect from moisture.

Further details: Special danger of slipping by leaking/spilling product.

## 8. Exposure controls/personal protection

### Control parameters

Occupational exposure limit values:

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

### 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.

**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: Form: solid, pellets  
Colour: varying, depends on colouring
- 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. 1.07 g/cm<sup>3</sup> (DIN 53479)
- Water solubility: insoluble
- Partition coefficient: n-octanol/water: not applicable
- Auto-ignition temperature: not self-igniting
- Thermal decomposition: approx. 320 °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/m<sup>3</sup> (DIN 53466)

## 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: Keep away from sources of ignition and heat.  
Avoid dust formation.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: In case of fire may be liberated: smoke, styrene, Methyl methacrylate, butadiene, carbon monoxide and carbon dioxide (CO<sub>2</sub>).

Thermal decomposition: approx. 320 °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. May cause irritations.  
Eye damage/irritation: Lack of data. May cause irritations.  
Sensitisation to the respiratory tract: Lack of data. Not to be expected  
Skin sensitisation: Lack of data. Not to be expected  
Germ cell mutagenicity/Genotoxicity: Lack of data. Not to be expected  
Carcinogenicity: Lack of data. Not to be expected  
Reproductive toxicity: Lack of data. Not to be expected  
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: When handled appropriately, even after long years of experience with this product, no adverse health effects are known.

Bis(2,2,6,6-Tetramethyl-4-piperidyl) sebacate:	Causes serious eye irritation.
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.
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.
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.

## 12. Ecological information

### Toxicity

**Aquatic toxicity:**

Information about: Bis(2,2,6,6-Tetramethyl-4-piperidyl) sebacate:

Toxic to aquatic life with long lasting effects.

**Algae toxicity:**

EC50 *Pseudokirchneriella subcapitata* (green algae): 1,1 mg/L/72h (OECD 201)

**Daphnia toxicity:**

LC50 *Daphnia magna* (Big water flea): 8,58 mg/L/48h (OECD 202)

**Fish toxicity:**

LC50 *Oncorhynchus mykiss*: 13 mg/L/96h (OECD 203)

LC50 *Lepomis macrochirus*: 4,4 mg/L/96h (OECD 203)

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

### Persistence and degradability

**Further details:**

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.

#### Contaminated packaging

Recommendation: 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: 8/5/2013

### 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.