

Version 3
31/12/2002

Lonza

Safety Data Sheet
Distitron 100 BSX15

1: Chemical Product and Company Identification

Distitron 100 BSX15

Producer : Lonza SpA
Via del Pruneto 40
I-52027 San Giovanni Valdarno (AR)
ITALY
Telefono: ++39 055 91281

Agent : Lonza SpA
Via Enrico Fermi 51
I-24020 Scanzorosciate BG
Telefono: ++39 035 652 111

Emergency telephone number : Via del Pruneto 40 I-52027 San Giovanni Valdarno
++39 055 9128503/91281

2: Composition/Information on Ingredients

Unsaturated polyester : > 50 %

Styrene : Concentration 12,5 - 43 %
: EINECS/ELINCS 202-851-5
: CAS 100-42-5

Classification 67/548/CEE :
Index N° 601-026-00-0
Harmful; Xn;
R:10-20-36/38

Alfa-methylstyrene

: < 2,5 %
: EINECS/ELINCS 202-705-0
: CAS 98-83-9

Classification 67/548/CEE :
Index N° 601-027-00-6
Xi; N;
R:10-36/37-51/53

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3: Hazards Identification

Flammable.

Harmful by inhalation.

Irritating to eyes and skin.

4: First Aid Measures

Inhalation	: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Skin contact	: After contact with skin, wash immediately with plenty of soap and water. Seek medical attention if irritation develops and persists.
Eye contact	: For eye contact, flush eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the surface of the eyes and lids with water. Get medical attention.
Ingestion	: If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a physician.

5: Fire-fighting Measures

Suitable extinguishing media	: dry powder, carbon dioxide (CO2), foam, water spray, Do not use solid water stream.
Specific hazards during fire fighting	: Hazardous gases produced in fire under conditions that produce incomplete combustion may consist of carbon monoxide and aromatic hydrocarbons
Special protective equipment for fire-fighters	: Use personal protective equipment.
Additional advice	: Water mist may be used to cool closed containers.

6: Accidental Release Measures

Personal precautions	: Use personal protective equipment. Keep people away from and upwind of spill/leak. Remove all sources of ignition.
Environmental precautions	: Keep spill out of sewers and open bodies of water. Do not wash remainder with water.

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Methods for cleaning up : Absorb spill with inert material (sand, earth, ...) and give the liquid and solid in separate containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

7: Handling and Storage

Handling

Safe handling advice : Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Danger! Flammable material. Keep away from heat and sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Incompatible with oxidizing agents.

Storage

Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight.

Other data : Keep container tightly closed.

Storage stability

Stable at normal conditions

8: Exposure Controls/Personal Protection

Components with workplace control parameters

Styrene (CAS-No.: 100-42-5)

ACGIH-TLV

Exposure limit(s) : 20 ml/m³ 85 mg/m³
Short term exposure limit : 40 ml/m³ 170 mg/m³

DFG-MAK/BAT/TRK (2000)

Exposure limit(s) : 20 ppm 86 mg/m³

SUVA-MAK(2001)

Exposure limit(s) : 20 ppm 85 mg/m³

Value IDLH : 700 ppm

Alfa-Methylstyrene (No. CAS: 98-83-9)

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ACGIH-TLV

Exposure limit(s) : 50 ppm 242 mg/m³
Short term exposure limit : 100 ppm 483 mg/m³

Personal protective equipment

Hygiene measures : Avoid contact with skin, eyes and clothing. Do not breathe vapor. Wash hands before breaks and immediately after handling the product.

Respiratory protection : Mask with A-type filter for organic vapours.

Hand protection : solvent-resistant gloves

Eye protection : safety glasses

9: Physical and Chemical Properties

Appearance

State of aggregation : liquid (25.0°C)
Colour : blue
Odour : styrene-like

Safety relevant data

Boiling point/range : 145.0°C (760.00 mmHg) (ref. Styrene)
Density : 1.07 - 1.15 g/cm³ (25.0°C)
Relative vapour density : 3.600 (ref. Styrene)
Vapour pressure : 7.0 mbar (20°C) (ref. Styrene)
Water solubility : 0.30 g/l insoluble
pH : Not applicable
Viscosity, dynamic : Tixotropic
Flash point : closed cup : 31°C
Method: ISO 3680
Upper explosion limit : 8.0 %(V) (ref. Styrene)
Lower explosion limit : 1.1 %(V) (ref. Styrene)

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Ignition temperature : 490°C (ref. Styrene)

10: Stability and Reactivity

Hazardous reactions : When heated at relatively high temperature, the resin polymerizes spontaneously. This reaction could be strongly exothermic.

Decomposition products : Carbon oxides, Aromatic hydrocarbons.

Conditions to avoid : Heat.

Materials to avoid : strong oxidizing agents.

11: Toxicological Information

The following toxicological data refer to:

Styrene (CAS-No.: 100-42-5)

Acute oral toxicity : 2650 mg/kg Species: rat
(LD50)

Acute inhalation toxicity : 12 mg/l Species: rat
(LC50) Exposure time: 4 h

Skin irritation : mild irritant Species: rabbit

Alfa-Methylstyrene (No. CAS: 98-83-9)

Acute oral toxicity (LD50) : 4900 mg/kg Species: rat

12: Ecological and Ecotoxicological Information

Additional advice : At present time is no ecotoxicological information available.

13: Disposal Considerations

Waste from residues : Dispose of in compliance with all federal, state and local laws and regulations.

14: Transport Information

(#)

ADR : Class: 3

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Packaging group: III
Label: Flammable Liquid No. 3
HI No. : 30

RID : Class: 3
Packaging group: III
Label: Flammable Liquid No. 3
HI No. : 30

ICAO/ATA : Class: 3 Packaging group: III
Label: Flammable Liquid No. 3
Packing instruction (cargo aircraft): 310
Packing instruction (passenger aircraft): Y 309

IMDG-Code: : Class: 3.3
Packaging group: III
Label: Flammable Liquid No. 3
EmS: 3-05

UN/ID No. : 1866
Proper shipping name : Resin solution, flammable

15: Regulatory Information

Hazardous material : yes
Additional advice : Classification and labelling according to Directive 1999/45/CE

EU Index No. : The product is a mixture

Symbols/indications of danger :



Harmful

R-phrases) R10: Flammable.
R20: Harmful by inhalation.
R36/38: Irritating to eyes and skin.

S-phrases) S23: Do not breathe vapour.

16: Other Information

Other instructions/regulations : The product is a preparation. The components are listed in TSCA and EINECS.

(#) on the left indicate the modifications with respect to the last version.

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The information contained herein is believed to be correct and corresponds to the latest state of scientific and technical knowledge. However, no warranty is made, either express or implied, regarding its accuracy or the results to be obtained from the use of such information.