



Safety data sheet

1. Substance/preparation and company identification

Trade name:
ASTI-L (250, 400, 500)

Application of the substance/ the preparation:
Component of a polyurethane system

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2. Hazards identification

2.1. Classification of the substance or mixture

In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

Additional information For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements

Signal Word None.

Hazard Statements None.

Precautionary statements None.

Additional advice None.

Product identifier None.

2.3. Other hazards No hazards to be especially mentioned.

3. Composition/information on ingredients

Chemical characterization Mixture.

Components		CLP Classification	Product identifier
Glycerin propoxiiert	10-25%	Acute Tox. 4 H302	CAS-No.: 25791-96-2 Index-No: Polymer
Triethylendiamin	< 1%	Acute Tox. 4 H302, Skin Irrit. 2 H315, Eye Irrit. 2 H319, Flam. Sol. 1 H228	CAS-No.: 280-57-9 EC-No.: 205-999-9
N,N-Dimethylcyclohexylamin	< 1%	Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Chronic 2 H411, Flam. Liq. 3 H226	CAS-No.: 98-94-2 EC-No.: 202-715-5 REACH No.: 01-2119533030-60
N,N-Bis(2-Dimethylaminoäthyl)Methylamin	< 1%	Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314	CAS-No.: 3030-47-5 EC-No.: 221-201-1 Index-No: 612-109-00-6



For the full text of the phrases mentioned in this Section, see Section 16.
Hazardous impurities None known.

4. First aid measures

4.1. Description of first aid measures

Inhalation No special measures required.
Skin contact Wash with water and soap as a precaution.
Eye contact Rinse thoroughly with plenty of water, also under the eyelids.
If eye irritation persists, consult a specialist.
Ingestion Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.

4.3. Indication of any immediate medical attention and special treatment needed

None known.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO₂, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons High volume water jet.

5.2. Special hazards arising from the substance or mixture

No data is available on the product itself.

5.3. Advice for firefighters

Special protective equipment for Firefighters

Standard procedure for chemical fires.

Specific methods

No special measures required.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

Personnel No special measures required.

Advice for emergency responders

Handle in accordance with good industrial hygiene and safety practice.

6.2. Environmental precautions No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Clean up promptly by sweeping or vacuum. After cleaning, flush away traces with water.

6.4. Reference to other sections

See chapter 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

No special technical protective measures required.

7.2. Conditions for safe storage, including any incompatibilities

The product is hygroscopic. Keep container tightly closed. Store at room temperature in the original container. Keep away from food and drink.

7.3. Specific end use(s)

No information available.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) None.

8.2. Exposure controls

Occupational exposure controls General industrial hygiene practice.



Personal protection equipment

Respiratory protection	No special protective equipment required.
Hand protection	PVC disposable gloves
Eye protection	Avoid contact with eyes.
Skin and body protection	No special measures required.
Thermal hazards	No special measures required.
Environmental exposure controls	No special measures required.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid.
Colour	colorless to yellowish
Odour	Characteristic.
Odour Threshold	not determined
pH:	not applicable
Melting point/range:	< 0 °C
Boiling point/range:	> 100 °C
Flash point:	> 120 °C
Evaporation Rate:	not determined
Flammability:	not applicable
Explosion limits:	not determined
Vapour pressure:	not determined
Vapor density:	not determined
Relative density:	1,00 g/cm ³ (25 °C)
Water solubility:	partly soluble
Partition coefficient (noctanol/ water):	not determined
Autoignition temperature:	not determined
Decomposition temperature:	not determined
Viscosity:	400 mPas (25 °C)
Combustion/explosion hazards:	not determined
Oxidizing properties:	None

9.2. Other information

General Product Characteristics No information available.

10. Stability and reactivity

10.1. Reactivity	Reactive with Isocyanat.
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	No if used as directed.
10.4. Conditions to avoid	Vapours in contact with fire or red-hot surfaces may form decomposition products with highly irritating and warning effects.
10.5. Incompatible materials	ferrous metals, alloys and galvanized surfaces
10.6. Hazardous decomposition products	None under normal use. In the event of fire, the following can be released: CO _x , NO _x , SiO _x

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Poly(oxypropylene) triol (CAS 25791-96-2) Dermal LD50 Rabbit > 20 mL/kg (NLM_CIP) Oral LD50 Rat = 2830 µL/kg (NLM_CIP) Oral LD50 Rat > 64 mL/kg (NLM_CIP) 1,4-Diazabicyclo[2.2.2]octane (CAS 280-57-9) Dermal LD50 Rabbit = 3200 mg/kg (NZ_CCID) Oral LD50 Rat = 1700 mg/kg (NZ_CCID)
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**N,N-Dimethylcyclohexylamine (CAS 98-94-2)**Inhalation LC50 Rat = 1889 mg/m³ 2 h(NLM_CIP)

Oral LD50 Rat = 272 mg/kg (NLM_CIP)

N-[2-(Dimethylamino)ethyl]-N,N'.N'-trimethyl-1,2-ethanediamine (CAS 3030-47-5)

Oral LD50 Rat = 1630 µL/kg (NLM_CIP)

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory / Skin Sensitisation

None known.

Carcinogenicity

No data available.

Germ cell mutagenicity

No data available.

Reproductive toxicity

No data available.

Specific target organ toxicity

No data available.

(single exposure)**Specific target organ toxicity**

No data available.

(repeated exposure)**Aspiration hazard**

No data available.

Human experience

This product has no known adverse effect on human health.

12. Ecological information**12.1. Toxicity**

No data available.

1,4-Diazabicyclo[2.2.2]octane (CAS 280-57-9)

Ecotoxicity - Freshwater Fish-

96 h LC50 Pimephales promelas: 1510 - 1980 mg/L [flow-through]

Acute Toxicity Data

DMCHA/Polycat 8 (CAS 98-94-2)

No data is available on the product itself. May change pH of waters.

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB**Assessment**

No information available.

12.6. Other adverse effects

No information available.

13. Disposal considerations**13.1. Waste treatment methods****Waste from residues / unused products**

Dispose of in accordance with local regulations.

Contaminated packaging

Offer rinsed packaging material to local recycling facilities.

14. Transport information**ADR/RID**

Not required.

IMO

Not required.

ICAO

Not required.

Further Information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulatory Information**

Product does not contain any organic halogens.

Poly(oxypropylene) triol (CAS 25791-96-2)

EU - No-Longer Polymers List (67/548/EEC)

NLP No. 500-044-5 (>1<6.5 mol propoxylated units)

EU - REACH (1907/2006) - List of Registered Substances

Present

1,4-Diazabicyclo[2.2.2]octane (CAS 280-57-9)



EU - REACH (1907/2006) - List of Registered Substances	Present
N,N-Dimethylcyclohexylamine (CAS 98-94-2)	
EU - REACH (1907/2006) - List of Registered Substances	Present
N-[2-(Dimethylamino)ethyl]-N,N'.N'-trimethyl-1,2-ethanediamine (CAS 3030-47-5)	
EU - Seveso III Directive (2012/18/EU) - Qualifying Quantities of Dangerous Substances - Lower-Tier Requirements	50 tonne
EU - Seveso III Directive (2012/18/EU) - Qualifying Quantities of Dangerous Substances - Higher-Tier Requirements	200 tonne
EU - REACH (1907/2006) - List of Registered Substances	Present
15.2. Chemical safety assessment	Not required.

16. Other information
Key or legend to abbreviations and acronyms

CLP: Classification according to Regulation (EC) No.1272/2008 (GHS/CLP)

Full text of phrases referred to under sections 2 and 3

H226: Flammable liquid and vapour.
H228: Flammable solid.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H411: Toxic to aquatic life with long lasting effects.

Further information Not relevant.

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