

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

- Product identifier
- Trade name **LasilCast PN 1515 component A**
- Utilization of the substance of the formulation: Polyol for Polyurethanes
- Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use SU12 Manufacture of plastics products, including compounding and conversion
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
ALTROPOL KUNSTSTOFF GmbH
Rudolf-Diesel-Str 9 - 13
D-23617 Stockelsdorf
Tel. +49 (0)451-49960-0
Fax. +49 (0)451-49960-20
e-mail: info@altropol.de
- Further information obtainable from: environment protection department
- Emergency telephone number:
During normal opening times (7 am - 5 pm)
phone : +49 (0)451-49960-0 or +49 (0)176-10232577

2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- Information concerning particular hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- Label elements
- Labelling according to EU guidelines:
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- Special labelling of certain preparations:
Safety data sheet available for professional user on request.
- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:		
CAS: 102-60-3 EINECS: 203-041-4	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol ☒ Xi R36 ⚠ Eye Irrit. 2, H319	10 - 25%
CAS: 38640-62-9	alkylated aromatic hydrocarbon R53 ⚠ Asp. Tox. 1, H304; Aquatic Chronic 4, H413	5 - 10%
CAS: 112-27-6 EINECS: 203-953-2	2,2'-(ethylenedioxy)diethanol substance with a Community workplace exposure limit	5 - 10%
CAS: 110-63-4 EINECS: 203-786-5	butane-1,4-diol ☒ Xn R22 ⚠ Acute Tox. 4, H302	5 - 10%

· Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- Description of first aid measures
- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: If skin irritation continues, consult a doctor.
- After eye contact: Seek medical treatment.
- After swallowing: Seek immediate medical advice.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents:
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture
In case of fire, the following can be released:
Carbon monoxide (CO)
carbon dioxide
- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections No dangerous substances are released.

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7 Handling and storage

- Handling:
 - Precautions for safe handling
 - Keep receptacles tightly sealed.
 - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
 - Take care by opening
- Conditions for safe storage, including any incompatibilities
- Storage:
 - Requirements to be met by storerooms and receptacles:
 - Keep container tightly closed and dry and storage in a good ventilated room.
 - Storage temperature: 15 - 25 °C.
 - Information about storage in one common storage facility:
 - Store away from oxidizing agents.
 - Store away from reducing agents.
 - Store away from foodstuffs.
 - Further information about storage conditions: This product is hygroscopic.
 - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

- Control parameters

- Ingredients with limit values that require monitoring at the workplace:

112-27-6 2,2'-(ethylenedioxy)diethanol

AGW (Germany) Long-term value: 1000E mg/m³
2(II);DFG, Y

110-63-4 butane-1,4-diol

AGW (Germany) Long-term value: 200 mg/m³, 50 ppm
4(II);AGSMAK (Austria) Short-term value: 800 mg/m³, 200 ppm
Long-term value: 200 mg/m³, 50 ppm

- Additional information: The lists valid during the making were used as basis.
- Exposure controls
- Personal protective equipment:
 - General protective and hygienic measures: Do not eat or drink while working.
 - Respiratory protection: Not necessary if room is well-ventilated.
 - Protection of hands:
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 - Material of gloves
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - Penetration time of glove material
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR
Chloroprene rubber, CR
Natural rubber, NR
PVC gloves

- Not suitable are gloves made of the following materials:

Strong material gloves

Leather gloves

- Eye protection:



Tightly sealed goggles

- Body protection:

Solvent resistant protective clothing

Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

Form:	Fluid
Colour:	Whitish
· Odour:	Characteristic

- Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	230°C

- Flash point: 101°C

- Ignition temperature: 355°C

- Self-igniting: Product is not selfigniting.

- Danger of explosion: Product does not present an explosion hazard.

- Density at 20°C: ca. 1.0 g/cm³

- Solubility in / Miscibility with water: Not miscible or difficult to mix.

- Viscosity:

Dynamic at 20°C:	ca. 800 mPas
VOC (EC)	6.50 %

- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity

- Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- Possibility of hazardous reactions

Reacts with reducing agents.

Reacts with oxidizing agents.

Reacts with inorganic acid chlorides.

- Conditions to avoid: No further relevant information available.

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- Incompatible materials:
Evitar o contacto com agentes oxidantes fortes em contato acid
- Hazardous decomposition products:
Flammable gases/vapours
Carbon monoxide
Carbon dioxide

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
on the skin: slightly irritant (OECD method), labelling not required
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation Must be specially treated adhering to official regulations.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- | | |
|---------------------------|------|
| · UN-Number | |
| · ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |

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· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	-

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to EU guidelines:
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- Special labelling of certain preparations:
Safety data sheet available for professional user on request.
- National regulations:
- Technical instructions (air):

Class	Share in %
NK	5 - 10
- Waterhazard class: Water hazard class 1 (VwVwS 17.05.99): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H413 May cause long lasting harmful effects to aquatic life.
- R22 Harmful if swallowed.
R36 Irritating to eyes.
R53 May cause long-term adverse effects in the aquatic environment.
- Department issuing MSDS: environment protection department
- Contact:
Herr Karasmann Tel. +49 (0)451-49960-0
Herr Grützmacher Tel. +49 (0)2056-25863-6
- Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization

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ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

VOC: Volatile Organic Compounds (USA, EU)

· * Data compared to the previous version altered.

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