

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Commercial Product Name: LARTON G/40 NAT.:0169

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant uses

Production of moulded articles

Uses advised against

This material is not suitable for use in medical applications, unless the medical device has been tested according to the applicable national and international laws and that the required safety tests have been carried out. The company LATI does not take any responsibility regarding the use of the material in the above mentioned applications.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

LATI INDUSTRIA TERMOPLASTICI S.P.A.

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1.4 EMERGENCY TELEPHONE NUMBER

+390332409777

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 (CLP), the material is not classified as dangerous.

2.2 Label elements

The material does not require to be labelled in accordance with Directive 67/548/EEC and amendments (Special case - alloys, preparations containing polymers and preparations containing elastomers), with Directive 1999/45/EC and Regulation (EC) No 1272/2008 (CLP).

2.3 Other hazards

Risk of slipping if the product is spilled onto the ground. Fumes or vapours released during processing, must not be inhaled. Molten material can cause burns. Dusts and particles generated during handling the product, may cause mechanical irritation of the eyes, skin and mucous membranes. Grinding of moulded items can emphasize these phenomena; it is therefore necessary to avoid inhalation of any possible dust in the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Polyphenylene sulfide

Glass fibres

Additional information on the composition can be found in the technical literature

1) Dangerous substances contained in the material

None

2) Substances SVHC intentionally added in concentration higher than 0,1% w/w:

None

4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of irritation due to contact with the eyes

Wash with plenty of water while keeping the eyelids open. If eye irritation persists, consult a doctor.

In case of skin irritation due to contact with granules or powder:

Wash with soap and water.

In case of skin contact with molten plastic material:

Immediately cool with water and consult a doctor.

Dust inhalation:

Transport the victim to fresh air and consult a doctor.

Accidental inhalation of decomposition gases:

Transport the victim to fresh air and consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Mechanical irritation due to product particles.

4.3 Indication of any immediate medical attention and special treatment needed

Take the injured person into a ventilated area and consult a doctor.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Any type of extinguishing agent (water, foam, carbon dioxide, powder, etc.)

Extinguishing media which must not be used:

None.

5.2 Special hazards arising from the substance or mixture

Decomposition products released during a fire:

carbon monoxide, carbon dioxide, sulphur oxides, carbon disulphide

Under special fire conditions, traces of other toxic substances are possible. Formation of further decomposition and oxidation products depends upon the fire conditions.

5.3 Advice for firefighters

Wear self contained breathing apparatus and flame-proof clothing

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No special precautions needed

6.1.2. For emergency responders

No special precautions needed

6.2 Environmental precautions

No special precautions needed

6.3 Methods and material for containment and cleaning up

In case of spillage, pick up mechanically without forming dust. Do not disperse the material into drains or soil.

6.4 Reference to other sections

Information regarding exposure control/personal protection and disposal considerations can be found in sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

During the manipulation, avoid the formation of significant amounts of particles with size smaller than 500 micrometers, complying with the requirements of Regulation NFPA 654 (national fire protection association) or equivalents. Ensure a good measures and precautions to prevent the build-up of electrostatic charge (containers and equipments should be grounded against electrostatic charge) in accordance with the guidelines listed in the Code CEI CLC/TR 50404 (CEI 31-55) (Electrostatics - Code of practice for the avoidance of hazards due to static electricity) or equivalents.

7.2 Conditions for safe storage, including any incompatibilities

Store in a covered and dry place, away from atmospheric agents.

7.3 Specific end use(s)

For uses other than those recommended, please contact the supplier.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limit values for pollutants in the workplace (ACGIH)

TLV:	10 mg/m ³	TLV-TWA	inhalable dust
	3 mg/m ³	TLV-TWA	respirable dust
	1 fibres/cm ³	TLV-TWA	glass fibres

DEFINITIONS

TLV-TWA (Exposure Limit Values - Time weighted average): average concentration calculated over 8 hours (working day) and 40 hours per week to which workers may be exposed without adverse effect.

Derived levels without effect (DNEL)

No data available.

PNEC (predicted no-effect concentration (PNEC)

No data available.

8.2 Exposure controls

During handling of the material and processing of parts, extract any dust present in the environment by applying appropriate measures and using adequate protective equipment. During extrusion and moulding, extract fumes or vapours with an appropriate exhaust system. For emissions of pollutants into the atmosphere during the processing of plastic materials, observe the limits set by the competent authorities and local and national legislation.

Skin protection:

When handling in the presence of dust, the use of protective gloves EN 388 (2132) and protective clothing is recommended. During processing of the material, in the presence of fumes and fog, the use of protective clothing and protective gloves EN 388 (4131), EN 407 (X2XXXX), EN 374-3 is recommended.

Eye protection:

When handling in the presence of dust, safety goggles (EN 166) are recommended. When processing in the presence of molten material, a face shield is recommended.

Respiratory protection:

During handling and processing of the material, the use of protective masks FFP2 is recommended if dust or gas/vapour is present.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

pH:	not applicable
Physical form:	solid in granules
Odour:	characteristic
Colour:	natural or different colours (see description)
Density:	1,31 - 2,17 g/cm ³
Melting point/range:	280 - 290 °C
Thermal decomposition:	>370 °C
Flash point:	500 °C
Autoignition:	540 °C
Flammability:	not flammable (Dir 67/548/EEC as amended)
Explosive properties:	not explosive in the form in which it is placed on the market

9.2 Other information

Water solubility: insoluble at 20°C

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction if the warnings/indications for storage and handling are respected.

10.2 Chemical stability

The product is stable if the warnings/indications for storage and handling are respected.

10.3 Possibility of hazardous reactions

No known dangerous reaction. The product is chemically stable.

10.4 Conditions to avoid

Before processing, it is recommended to dry the product according to the technical instructions. Caution! If the material is handled at processing temperatures higher than the highest suggested value (mentioned in the technical literature), some decomposition can occur; this becomes more important with higher residence times in the barrel. If the production process is interrupted, do not let the material stay in the barrel: it can decompose and/or create a dangerous excess of pressure in the barrel. Avoid contamination with other materials which may create harmful gases and fumes during the processing phase. During purging, do not allow fumes from the molten material to disperse into the working environment. For additional information, refer to the recommendations in the technical literature.

10.5 Incompatible materials

Avoid contamination with other materials which could give rise to harmful gases and fumes during transformation.

10.6 Hazardous decomposition products

low MW hydrocarbons, sulphur oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Specific tests to determine the toxicity of the product have not been carried out. The evaluation is based on information from similar products, the ingredients, professional experience and from technical literature.

(a) acute toxicity

No data available.

(b) skin corrosion/irritation


Dust generated during handling of the material can cause mechanical irritation of the skin.

(c) serious eye damage/irritation

Dust generated during handling of the material can cause mechanical irritation of the eyes.

(d) respiratory or skin sensitisation

This material contains glass fibres; occasionally, some allergic skin reactions have been detected.

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(e) germ cell mutagenicity

No data available.

(f) carcinogenicity

Glass fibre is classified: - group 3 (not classifiable as carcinogenic for humans) according to IARC - category A4 (not classifiable as carcinogenic for humans) according to ACGIH.

(g) reproductive toxicity

No data available.

(h) STOT-single exposure

No data available.

(i) STOT-repeated exposure

No data available.

(j) aspiration hazard

Dust generated during handling of the material can cause mechanical irritation of the upper respiratory tract.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No specific tests have been made on this material. It is practically insoluble in water and therefore is not predicted to release substances into water or soil.

The statement has been derived from substances/products of a similar structure or composition.

- Toxicity to fish

No data available.

- Chronic toxicity to fish

No data available.

- Aquatic invertebrates

No data available.

- Chronic toxicity to aquatic invertebrates

No data available.

- Aquatic plants

No data available.

- Microorganisms/Effect on activated sludge

No data available.

12.2 Persistence and degradability

Potentially not biodegradable. It is expected to be persistent.

12.3 Bioaccumulative potential

It is not expected to cause bioaccumulation.

12.4 Mobility in soil

Mobility in soil is not expected because of the conformation/shape, consistency and chemical composition of the substance.

12.5 Results of PBT and vPvB assessment

The material does not contain PBTs (persistent, bioaccumulative, toxic) or vPvB (very persistent, very bioaccumulative).

12.6 Other adverse effects

No other environmental effects have been observed (ozone, global warming).

Water purification plant: the material can be eliminated from water by mechanical separation. In accordance with EC and national regulations, water which has been in contact with the material or the moulded/printed items, may require special treatment before being sent to drain. If necessary, provide exhaust gas treatment for air coming from the fume extraction plant used during handling of the material, in accordance with EC and national regulations.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The material must be recycled or disposed of or incinerated in accordance with local and national legislation. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Dispose of packaging and residues in accordance with local and national legislation.

14. TRANSPORT INFORMATION

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Legislation references

classification and labelling:

Regulation (EC) No 1272/2008 and amendments.

occupational health and safety

- "ATEX" - Dir. 2017/164/EU, Dir. 1999/92/EC.

atmospheric emissions:

- Dir. 2008/50/EC - Dir. 2010/75/EU— and amendments.

water protection:

-Dir. 91/271/EEC, 2000/60/EC, 2008/105/EC, 2009/90/EC, 2013/39/EU.

waste disposal:

-Dir. 2015/1127/EC, 94/62/EC, 2001/118/EC.

PPE:

- Reg. 2016/425/EU - Dir. 93/68/EEC - Dir. 93/95/EEC - Dir. 96/58/EC.

The present datasheet has been prepared according to the following regulations: Reg. (EU) N. 453/2010 - Reg. (EC) N. 1272/2008 - Reg.(EC) N. 1907/2006 (REACH) - D.M. 07/09/2002 - Dir. 2001/58/EC - Dir. 1999/45/EC - ISO 11014:2009.

15.2 Chemical safety assessment

Chemical safety evaluation not required.

16. OTHER INFORMATION

Hazard Classes

None

Hazard Indications

None

Abbreviations and acronyms

CLP	Classification Labelling Packaging, Regulation (EC) No 1272/2008
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006
LD50	Lethal Dose 50. Dose of a tested substance causing 50% lethality during a specified time interval
LC50	Lethal Concentration to 50 % of a test population
NOAEL	No Observed Adverse Effect Level
NOAEC	No Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
ACGIH	American Conference of Governmental Industrial Hygienists
IARC	International Agency for Research on Cancer
EC50	Concentration of a tested substance causing x% changes in response (e.g. on growth) during a specified time interval
ErC50	EC50 in terms of reduction of growth rate
ECHA	European Chemicals Agency
PBT	Persistent, bioaccumulative and toxic
vPvB	Very persistent and very bioaccumulative

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The information supplied, is based on our best knowledge, our experience and on information received from our suppliers. It refers to the handling and the treatment of the material, but for its use in specific projects, it is recommended to contact our Technical Service Department. The company LATI is available to give all information and advice necessary for the use of the material and the optimization of production processes. Processing information can be found in the technical literature. It is the duty of the user to apply all protective measures for the health of workers in accordance with national and local regulations on occupational safety. Distributors and users of the material should pass this safety datasheet to all persons intending to handle or process this material. The company LATI does not take on any responsibility for improper use or uses different from those reported in the technical literature.

Double bar at the left side of the paragraph represent that the section has been modified in comparison with the previous version. .