

Plastic packaging and technical components

1. Description of the product and the company

1.1 Product identifier

| | |
|---------------------------|--|
| Description | Plastic packaging and technical components |
| Synonym | e.g. bottles, jars, containers, tanks, chairs, air ducts, sleighs |
| Nature of product | Plastic hollow bodies |
| Production process | Extrusion blow molding, injection blow molding, injection stretch blow molding |

1.2 Relevant identified application of the product and application that is advised against

1.2.1 Relevant identified applications

The application of plastic packagings in cosmetics, chemical, food and pharmaceutical industries or as technical components is possible.

1.2.2 Application that is advised against

We do not consider the packaging or technical components suitable **without** detailed controls regarding compatibility of the bulk, functionality and legal conformity **by the customer**.

1.3 Details on the supplier submitting the safety data sheet

Sauer GmbH & Co KG
Halskestr. 7
D-96465 Neustadt bei Coburg
Email info@sauer-polymertechnik.de
www.sauer-polymertechnik.de

1.4 Emergency number

| | |
|--------------------|---|
| Head office | Phone +49 (0)9568 8580 (only within the valid office hours) |
|--------------------|---|

2. Possible risks/dangers

2.1 Classification of the product

2.1.1 Classification according to (EU) regulation n° 1272/2008 [CLP]

The product is not classified hazardous.

2.1.2 Special safety of use messages for human beings and environment

| | |
|--------------------|---|
| Health | The product is not classified hazardous material. |
| Fire | The product burns but is not classified inflammable. |
| Environment | The product is not a classified risk for the environment. |

2.2 Elements of identification

2.2.1 Identification according to (EU) regulation n° 1272/2008 [CLP]

The product does not have to be identified.

2.3 Other risks/dangers

None

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3. Composition /Details on properties

Chemical characteristics

- a) Ethylen-Copolymer of low and high density
- b) Propylen-Copolymer
- c) Polyester-Copolymer

Additional remarks:

Can contain masterbatches or additives.
Can contain polymeric barrier layers, e.g. EVOH, PA.
Can be coated, printed or labelled.
Can be recycled.

4. First aid actions

4.1 Description of the first aid actions

| | |
|---------------------------|---|
| General remarks | No special actions required. |
| After inhalation | Not applicable |
| After skin contact | No negative impacts. |
| After eye contact | Ask for medical help if the irritation stays.. |
| After swallowing | Negative impacts on health after swallowing are unlikely. |

4.2 Important acute and delayed appearing symptoms and effects

There are no information available.

4.3 Advice on medical emergency aid or special treatment

Treatment based on symptoms.

5. Firefighting measures

5.1 Extinguishing agent

| | |
|--------------------------------------|---|
| Suitable extinguishing agents | Water spray jet, foam, extinguishing powder, carbon dioxide |
|--------------------------------------|---|

5.2 Special risks/dangers by the product

| | |
|--|--|
| Risk of fire | The product burns but is not classified inflammable. |
| Hazardous products of decomposition | Carbon monoxide, carbon dioxide and unburned hydrocarbon (smoke) |

5.3 Advice for firefighting measures

| | |
|-------------------------------------|---|
| Firefighting instructions | Keep away from heat and steams |
| Special protective equipment | Use a self-contained breathing apparatus. |

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6. Accidental release measures

6.1 Personal preventive measures, protective equipment and actions that need to be taken in emergencies

In case of fire, avoid to inhale the steam. Wear suitable protective equipment.

6.2 Measures for environmental protection

Don't make it reach the environment.

Don't make it reach surface water or the sewerage water system. .

The product is water-insoluble.

6.3 Methods and material for retention and cleaning

Collect spilled products mechanically, e.g. sweeping, scooping, lifting, collecting and putting into a dedicated container like other solids.

The collected material has to be treated according to section 13 „disposal“.

6.4 Reference to other sections (in the safety data sheet)

| | |
|-------------------------------|----------------|
| Safe handling | See section 7 |
| Personal protection equipment | See section 8 |
| Disposal | See section 13 |

7. Handling and storage

7.1 Protective measures for safe handling

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|------------------------------|--|
| Precaution for safe handling | No mechanical exposure out of the defined tolerances. Avoidance of mechanical exposure of the surface (sensitivity against scratches) |
| Handling temperature | Control temperature in laboratory at 20 - 25°C and treatment at room temperature 15 – 25°C. |

7.2 Conditions for safe storage considering incompatibilities

| | |
|---------------------|--|
| Storage conditions | Store in a dry, cool and well-ventilated place. |
| Storage area | Protect against heat, humidity and direct sun/UV radiation Keep away ignition sources. |
| Storage container | Use of original packaging. Keep the container closed while not using it to avoid contamination. |
| Storage temperature | Room temperature +/- 5°C (= 10 – 30°C) |

7.3 Specific end use

See section 1.2.

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8. Limitation and control of the exposition / personal protective equipment

So far no national limitation values have been defined.

In reference to the product, personal protective equipment is not necessary.

9. Physical and chemical properties

| | |
|---------------------------|---|
| Physical condition | hard |
| Appearance | Depending on the design |
| Color | Different colors possible – depending on the pigment |
| Odor | Slight or odorless |
| Melting point | a) 105 – 140°C b) 130 – 170°C c) 235 – 260°C |
| Flashing point | No data available |
| Dense | a) 0,915 – 0,97 g/cm ³ b) 0,89 – 0,92 g/cm ³ c) 1,3 g/cm ³ |
| Solubility | Insoluble in water |

10. Stability and reactivity

10.1 Reactivity

Risks of reactivity are not known.

10.2 Chemical stability

The product is chemically inert and stable if it is treated and stored under normal conditions, see section 7..

10.3 Possibility of hazardous reactions

No relevant data available.

10.4 Conditions that have to be avoided

High temperatures, sparks and open fire have to be avoided.

10.5 Incompatible materials

No information available.

10.6 Hazardous products of decomposition

Decomposition cannot be expected under normal conditions.

In case of fire, carbon monoxide, carbon dioxide and unburnt hydrocarbon (smoke) has to be considered.

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11. Details on toxicity

The product is not classified hazardous for human health.

11.1 Details on danger classes according to the EU regulation n° 1272/2008

The product does not have to be identified.

12. Details related to the environment

12.1 Toxicity

Environment – in general

Not hazardous.

Environment - air

Not hazardous.

Environment - water

The product is practically insoluble in water. Regarding its consistency and insolubility in water, ecological problems cannot be expected if the product is used correctly. The product is ecologically not easy bio-degradable.

12.2 Persistency and degradability

The product was not controlled. It is too big to be bio-disposable.

12.3 Potential of bio-accumulation

Regarding the consistency and the low solubility in water the product is not expected to accumulate biologically.

12.4 Results of the PBT and vPvB evaluation

The product does not contain components with a concentration of 0.1% or higher, that are considered either persistent, bio-accumulative and toxic (PBT) or very persistent and very bio-accumulative (vPvB).

13. Advice for disposal

The product has to be disposed of according to valid laws and regulations for hard waste. It has to be aimed to bring the waste back to the recycling circle.

If recycling is not possible, the local regulations for waste disposal have to be respected. The product can be burnt according to local regulations or deposited at a waste disposal site.

The fully emptied containers of the product (cardboard boxes and PE foils) can also be returned to the recycling circle.

14. Details on transportation

No hazardous goods in terms of transport regulations.

No special safety measures required (ADR / RID, IMDG or IATA).

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15. Legislative framework

This product does not have to be identified according to EU classification criteria.
Treatment according to industrial hygiene and safety instructions.

15.1 Instructions for safety, health and environmental protection / specific legislative framework for the product

EU-regulations

Limitations to use (REACH regulation according to EU VO 1907/2006, article 33)

16. Additional information / Liability

The information in this safety data sheet are based on the current state of knowledge and the only aim is to describe the aspects of the product related to health, safety and environment. The current state of publication is correct and reliable but we do not accept any responsibility for the correctness and completeness of the information.

No part of this document can be understood as a guarantee that the packaging or the technical part is suitable for sales or can be used for a certain purpose. It is the customer's responsibility to control and test our products to be sure that it is suitable for the designated use. The customer is responsible for the safe, correct and legally conform handling, treatment and use of our products.

We cannot be held liable for problems appearing after the use of our products with other materials. The information described in this document are only valid for our products before filling, application or use with other materials.