

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Effective date: 2022-03-03

Version: 1.0

**bFI A 3745**



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

### 1.1. Product identifier

Product name: bFI A 3745

Product description: acrylate copolymer

Product type: flow improver

REACH no.: A registration number for this substance does not exist because the substance or its use is exempt from registration, the annual tonnage does not require registration, or registration is scheduled for a later date.

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended for product use: Plastics processing: extrusion and compounding

Not recommended for product use: None known.

### 1.3. Details of the Supplier of the safety data sheet

Polytives GmbH

Hans-Knöll-Str. 6

07745 Jena

Germany

+ 49 3641 · 519 69 41

Email: [info@polytives.de](mailto:info@polytives.de)

Informing department

+ 49 3641 · 519 69 41

### 1.4. Emergency telephone number

+ 49 3641 · 519 69 41 (Jena, Germany, available weekdays 7-17)

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to CLP No. 1272/2008.

### 2.2. Label elements

Not a hazardous substance or mixture according to CLP No. 1272/2008.

### 2.3. Other Hazards

This substance/mixture does not contain any components at concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

General description: acrylate copolymer

In accordance with the relevant legislation, no components need to be reported.

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## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures:

General information: Consult a physician. Show this safety data sheet to the attending physician.

Inhalation: No special treatment necessary as there is no health hazard from inhalation.

Skin contact: No special treatment necessary as there is no health hazard from skin contact.

Eye contact: In case of mechanical irritation of the eyes, rinse thoroughly with plenty of water. In case of prolonged irritation, consult a physician.

Ingestion: Contact a physician.

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

None known.

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

No data available.

## 5. FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media: water spray, foam, extinguishing powder, carbon dioxide

Unsuitable extinguishing media: full water jet

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition may result in the release of irritant gases and vapours.

### 5.3. Advice for firefighters

As with any fire, use self-contained breathing apparatus (isolation device).

### 5.4. Other information

No data available.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment, and emergency procedures

Avoid formation of dust. Do not breathe vapours/mist/gas. Use personal protective equipment.

### 6.2. Environmental precautions

Prevent further leakage or spillage if this can be done without risk. Do not allow to enter sewage system. Avoid discharge into the environment. See section 12.

### 6.3. Methods and material for containment and cleaning up

Pick up mechanically. Dispose of in accordance with regulations, see section 13.

### 6.4. Reference to other sections

Personal protective equipment, see section 8,  
disposal, see sections 13.

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## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid dust formation. For thermal processing/machining, exhaust measures are required on the processing machines.

Avoid contact with skin. Avoid inhalation of vapours or mists. Take measures against electrostatic charging. In case of fire, cool endangered product with water.

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Keep container tightly closed. Store dry, at temperatures below 25°C.

### 7.3. Specific end use(s)

See section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components with limit values that require monitoring at the workplace

Contains no substances with threshold limit values.

### 8.2. Exposure controls

Appropriate technical measures

The usual precautionary measures when handling chemicals must be observed. Wash hands before breaks and at the end of work.

Personal protective equipment

Eyes/face protection: Use safety goggles with side shields.

Skin protection

Wear suitable protective gloves, e.g., made of NBR (nitrile rubber) with a material thickness >0.11 mm. Allow recovery phases for regeneration of the skin. Preventive skin protection (protective creams/ointments) is recommended.

Respiratory protection

Respiratory protection is required for: Powder or dust formation. The wearing time limits according to regulations in connection with the rules for the use of respiratory protective equipment must be observed.

Measures to avoid environmental exposure

Prevent further leakage or spillage if this can be done without risk. Do not allow to enter drains. Avoid discharge into the environment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Granules
Colour	transparent, colourless
Odor	odorless
Odor threshold	No data available.
PH	No data available.
Melting point/freezing point	No data available.
Boiling point and boiling range	No data available.
Glass transition	37.0 °C
Flash point	No data available.
Vaporisation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower ignition or explosion limits	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Density	1.16 g/cm <sup>3</sup>
Solubility in water	insoluble
Distribution coefficient: 1-Octanol/Water	No data available.
Auto-ignition	No data available.
Thermal decomposition	250 °C
Viscosity	Not applicable.
Explosive properties	No data available.
Oxidizing properties	No data available.

### 9.2. Other information

No data available.

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## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The material is stable under normal environmental conditions and under the temperature and pressure conditions expected during storage and handling.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

High temperature. Depolymerization starts at 250 °C.

### 10.5. Incompatible materials

Highly soluble in ketones and chlorinated alkanes.

### 10.6. Hazardous decomposition products

In case of fire, carbon oxides may be generated.

In case of fire, see chapter 5.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological effects

*Acute toxicity*

Not classified.

*Skin corrosion/irritation*

Not classified.

*Serious eye damage/irritation*

Not classified.

*Respiratory or skin sensitisation*

Not classified.

*Summary of germ cell mutagenicity, carcinogenicity, and reproductive toxicity evaluation*

Not classified.

*Specific target organ toxicity - single exposure*

Not classified.

*Specific target organ toxicity – repeated exposure*

Not classified.

*Aspiration hazard*

Not classified.

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## *Additional information*

### When swallowed

No data available.

### In case of eye contact

Mechanically, irritation may occur.

### Inhalation

No data available.

### In case of skin contact

No data available.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity: Do not allow to enter drains.

### 12.2. Persistence and degradability

Not readily biodegradable. Insoluble in water.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

Probably not mobile due to its insolubility in water.

### 12.5. Result of PBT and vPvB assessment

This substance/mixture does not contain any components at concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

### 12.6. Other adverse effects

General information: The product has not been ecotoxicologically tested. Due to the consistency as well as the low water solubility of the product, bioavailability is not likely. Tests on products of similar composition confirm this assumption. Penetration into soil, water and sewage system must be prevented.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product: The waste is not hazardous. Disposal should be carried out in compliance with the regulations after consultation with the competent local authority and the waste disposal company in a suitable facility approved for this purpose.

Uncleaned packaging: Non-contaminated packaging can be recycled.

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## 13.2 Relevant waste legislation

Waste code number: AVV070213

The assignment of waste code numbers/waste designations is to be carried out accordingly on an industry- and process-specific basis.

## 13.3 Annotations

Waste must be separated in such a way that it can be handled separately by municipal or national waste disposal facilities. Please observe the relevant national or regional regulations.

## 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID: —

IMDG: —

IATA: —

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: —

IMDG: —

IATA: —

### 14.4 Packing group

ADR/RID: —

IMDG: —

IATA: —

### 14.5 Environmental hazards

No data available.

### 14.6 Other information

No data available.

## 15. REGULATORY INFORMATION

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

This Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006.

International Chemical Weapons Convention (CWC), lists of toxic chemicals and precursors:  
Not prohibited and/or restricted.

Restrictions on the marketing and use of certain dangerous substances and preparations:  
Not prohibited and/or restricted.

Regulation (EC) No. 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals:  
Not prohibited and/or restricted.

List of substances of very high concern being considered for authorization:  
Not prohibited and/or restricted.

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## National regulations

TA Luft (Technische Anleitung Luft):

No data available.

Water Hazard Class:

No data available.

## **15.2 Chemical safety assessment**

Chemical safety assessments have not been performed for this product.

## **16. OTHER INFORMATION**

### **Changes made**

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### **Important literature and data sources**

Relevant manuals and publications.

Own studies.

Toxicological and ecotoxicological studies of other manufacturers.

### **List of relevant phrases (code and wording as indicated in chapters 2 and 3).**

Not relevant.

## **DISCLAIMER**

The above information is given by us to the best of our knowledge and is corroborated by our own tests and investigations. However, the use of the product must be checked for the specific conditions of the customer, as we cannot safeguard and consider all mixtures, dosages, production, and operating conditions. Therefore, the information in this document is not considered a warranted property. We do not consider ourselves responsible or liable for any use of our product outside the recommended applications. This also includes patent infringements.