

# Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 06.10.2025

Version: 14.0

Date / Previous version: 18.09.2023

Previous version: 13.0

Product: **tert-Butyl Acrylate (TBA)**

(ID no. 30041990/SDS\_GEN\_GB/EN)

Date of print 23.10.2025

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

#### **tert-Butyl Acrylate (TBA)**

Chemical name: tert-butyl acrylate

INDEX-Number: 607-245-00-8

CAS Number: 1663-39-4

REACH registration number: 01-2119451175-43-0000

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

Relevant identified uses: Monomer.

Recommended use: Monomer.

For the detailed identified uses of the product see appendix of the safety data sheet.

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

Company:

BASF SE  
67056 Ludwigshafen  
GERMANY

Contact address:

BASF plc  
4th and 5th Floors, 2 Stockport Exchange  
Railway Road, Stockport, SK1 3GG  
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Acute Tox. 3 (Inhalation - vapour)	H331 Toxic if inhaled.
Acute Tox. 4 (oral)	H302 Harmful if swallowed.
Acute Tox. 4 (dermal)	H312 Harmful in contact with skin.
Skin Irrit. 2	H315 Causes skin irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

For the classifications not written out in full in this section the full text can be found in section 16.

### 2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Danger

Hazard Statement:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H331	Toxic if inhaled.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H302 + H312	Harmful if swallowed or in contact with skin.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye protection or face protection.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Precautionary Statements (Response):

P311	Call a POISON CENTER or physician.
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Precautionary Statements (Storage):

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P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: tert-butyl acrylate, acrylic acid

### 2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

See section 12 - Results of PBT and vPvB assessment.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

#### Chemical nature

tert-butyl acrylate

CAS Number: 1663-39-4

EC-Number: 216-768-7

INDEX-Number: 607-245-00-8

#### Hazardous ingredients (GHS)

tert-butyl acrylate

Content (W/W): >= 99 % - <= 100 %

CAS Number: 1663-39-4

EC-Number: 216-768-7

INDEX-Number: 607-245-00-8

Flam. Liq. 2

Acute Tox. 3 (Inhalation - vapour)

Acute Tox. 4 (oral)

Acute Tox. 4 (dermal)

Skin Irrit. 2

Skin Sens. 1

STOT SE 3 (irr. to respiratory syst.)

Aquatic Chronic 2

H225, H315, H331, H317, H335, H302 + H312, H411

acrylic acid

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Content (W/W): ≤ 0.2 %	Acute Tox. 4 (Inhalation - vapour)
CAS Number: 79-10-7	Acute Tox. 4 (oral)
EC-Number: 201-177-9	Aquatic Chronic 2
INDEX-Number: 607-061-00-8	Aquatic Acute 1
	Acute Tox. 4 (dermal)
	Flam. Liq. 3
	Eye Dam. 1
	Skin Corr. 1A
	M-factor acute: 1
	H226, H314, H302 + H312 + H332, H411, H400
	<u>Specific concentration limit:</u>
	STOT SE 3, irr. to respiratory syst.: ≥ 1 %

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

### 3.2. Mixtures

Not applicable

## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

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Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## **SECTION 5: Fire-Fighting Measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

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

Advice: Risk of violent self-polymerization if overheated in a container. Cool endangered containers with water-spray.

Advice: Flammable. See SDS section 7 - Handling and storage.

### **5.3. Advice for fire-fighters**

Special protective equipment:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:

Extend fire extinguishing measures to the surroundings. Fight fire from maximum distance. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

In case of a fire in the vicinity a restabilization system should be used if the temperature in the bulk storage-tank reaches 45°C. Evacuate area of all unnecessary personnel. In case of a fire in the vicinity evacuate all personnel in a greater area if the temperature in the bulk storage-tank reaches 60°C.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## **SECTION 6: Accidental Release Measures**

High risk of slipping due to leakage/spillage of product.

Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

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Pack in tightly closed containers for disposal.

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

Handle in accordance with good industrial hygiene and safety practice.

Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

### **6.2. Environmental precautions**

Discharge into the environment must be avoided. Collect contaminated washing water for appropriate disposal.

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

For large amounts: Pump off product.

Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations. Ensure adequate ventilation. Suppress gases/vapours/mists with water spray jet. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Cleaning operations should be carried out only while wearing breathing apparatus. Pick up with suitable appliance and dispose of.

### **6.4. Reference to other sections**

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

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## **SECTION 7: Handling and Storage**

### **7.1. Precautions for safe handling**

The substance/ product may be handled only by appropriately trained personnel. Facility parts must be checked for polymer residues and cleaned on regular basis in order to avoid hazardous reactions.

Ensure thorough ventilation of stores and work areas. Encapsulation or exhaust ventilation required. When filling, transferring, or emptying of containers, adequate local exhaust ventilation is necessary. Vent waste air to atmosphere only through suitable separators. Check the condition of seals and connector screw threads.

The temperatures which must be avoided are to be considered. Protect against heat. Protect from direct sunlight. Protect contents from the effects of light. Do not open warm or swollen product containers. Remove persons to safety and alert fire brigade.

Ensure adequate inhibitor and dissolved oxygen level.

Avoid inhalation of dusts/mists/vapours. Avoid aerosol formation. Avoid all direct contact with the substance/product.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Substance/product can form explosive mixture with air. Ground all transfer equipment properly to prevent electrostatic discharge. It is recommended that all conductive parts of the machinery are grounded. Explosion-proof equipment is not necessary when loading and processing of the product takes place at a minimum of 5 °C below the flash point.

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Heated containers should be cooled to prevent polymerization. If exposed to fire, keep containers cool by spraying with water. Emergency cooling must be provided for the eventuality of a fire in the vicinity.

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

Further information on storage conditions: Prior to storage ensure that the transfer equipment used and the intended storage containers do not contain other substances/products. Before transfer to stock the identity of the product must be proved to be without doubt. The entrance to storage rooms is to be granted only to appropriately trained personnel.

The stabilizer is only effective in the presence of oxygen. Maintain contact with atmosphere containing 5 - 21% oxygen. Never use tanks with inert-gas installation for storage.

Risk of polymerization. Protect against heat. Protect from direct sunlight. Avoid UV-light and other radiation with high energy. Protect against contamination.

In case of bulk storage, the storage-tanks should at least be equipped with two high temperature alert devices.

Even if the product is stored and handled as prescribed/indicated it should be used up within the indicated duration of storage.

Storage stability:

Storage temperature: < 35 °C

Storage duration: 12 Months

The stated storage temperature should be noted.

Avoid prolonged storage.

This product should be processed as soon as possible.

Ensure adequate inhibitor and dissolved oxygen level.

Do not store with less than 10 % headspace above liquid.

Storage stability is based upon ambient temperatures and conditions described.

It is recommended to keep a safe distance of +2 degrees above the crystallization range.

The product is stabilized, the shelf life should be noted.

Storage temperature: 45 °C

A restabilization system should be used if the temperature in the bulk storage-tank reaches the indicated value.

Storage temperature: 60 °C

All personnel in a greater area should be evacuated if the temperature in the bulk storage-tank reaches the indicated value.

## 7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

79-10-7: acrylic acid

STEL value 59 mg/m<sup>3</sup> ; 20 ppm (OEL (EU))  
indicative

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TWA value 29 mg/m<sup>3</sup> ; 10 ppm (OEL (EU))  
indicative  
TWA value 29 mg/m<sup>3</sup> ; 10 ppm (WEL/EH 40 (UK))  
STEL value 59 mg/m<sup>3</sup> ; 20 ppm (WEL/EH 40 (UK))  
Ceiling limit value/factor: 15 min  
STEL value 59 mg/m<sup>3</sup> ; 20 ppm (WEL/EH 40 (UK))  
Ceiling limit value/factor: 1 min

#### PNEC

freshwater: 0.00237 mg/l

marine water: 0.000237 mg/l

STP: 3.05 mg/l

sediment (freshwater): 0.0415 mg/kg

sediment (marine water): 0.00415 mg/kg

soil: 0.00688 mg/kg

#### DNEL

worker:

Long-term exposure - local effects, Inhalation: 11 mg/m<sup>3</sup>

worker:

Long-term exposure- systemic effects, Inhalation: 16.0 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, Inhalation: 8.0 mg/m<sup>3</sup>

consumer:

Long-term exposure - local effects, Inhalation: 1.27 mg/m<sup>3</sup>

## **8.2. Exposure controls**

#### Appropriate engineering controls

Ensure adequate ventilation.

#### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):  
fluoroelastomer (FKM) - 0.7 mm coating thickness



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nitrile rubber (NBR) - 0.4 mm coating thickness

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

Avoid contact with skin. Avoid inhalation of vapour. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Handle in accordance with good industrial hygiene and safety practice.

#### Environmental exposure controls

All appropriate measures must be taken to prevent the release of this product to the environment and to limit the dispersion of any release when it occurs. Suitable risk management measures should be in place.

## **SECTION 9: Physical and Chemical Properties**

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

Form:	liquid	
Colour:	colourless	
Odour:	ester-like	
Odour threshold:	not determined	
pH value:	not applicable	
Freezing point:	approx. -69 °C	
	Literature data.	
Boiling point:	119.2 °C	
	(1,013 hPa)	
Flash point:	14 °C	(DIN 51755, closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability:	Highly flammable.	(derived from flash - and boiling point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
	0.7 %(V)	
	(7.5 °C)	

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Upper explosion limit:	For liquids not relevant for classification and labelling. 7 %(V) (46 °C)	
Ignition temperature:	400 °C Literature data.	
Vapour pressure:	20 hPa (23.4 °C) 84.7 hPa (50 °C)	(measured)
Density:	0.88 g/cm <sup>3</sup> (20 °C)	(pycnometer)
Relative density:	0.88 (20 °C)	
Relative vapour density (air):	4.41 (20 °C) Heavier than air.	(calculated)
Solubility in water:	approx. 2 g/l (25 °C)	
Solubility (qualitative) solvent(s):	organic solvents miscible	
Partitioning coefficient n-octanol/water (log Kow):	2.32 (25 °C)	(OECD Guideline 107)
Self ignition:	Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	approx. 0.5 - 1.0 mPa.s (20 °C) By analogy with a product of similar composition	
Viscosity, kinematic:	(20 °C) not determined	
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	

## 9.2. Other information

Self heating ability:	It is not a substance capable of spontaneous heating. Not tested on account of the low melting-point.
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SADT:	Not a substance/mixture liable to self-decomposition according to GHS.	
pKA:	The substance does not dissociate., Study scientifically not justified.	
Adsorption/water - soil:	KOC: 26.14; log KOC: 1.42 (calculated)	
	Adsorption to solid soil phase is not expected.	
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Grain size distribution:	Test substance	The substance / product is marketed or used in a non solid or granular form.
Molar mass:	128.17 g/mol	

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.
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### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

Explosion and fire hazard exists under confined conditions. Ignitable air mixtures can form when the product is heated above the flash point and/or when sprayed or atomized. Formation of explosive gas/air mixtures.

#### Polymerization coupled with heat formation.

**Risk of spontaneous polymerization by oxygen depletion of the liquid phase. Risk of spontaneous polymerization when heated or in the presence of UV radiation. Risk of spontaneous and violent self-polymerization if inhibitor is lost or product is exposed to excessive heat. Polymerization produces gases which may burst closed or confined containers. Reactions may cause ignition.**

**Risk of spontaneous polymerization in the presence of starters for radical chain reactions (e.g. peroxides). Reacts with nitric acid. Risk of spontaneous polymerization in the presence of oxidizing agents.**

**Hazardous reactions in presence of mentioned substances to avoid.**

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**The product is stabilized against spontaneous polymerization prior to despatch. The product is stable if stored and handled as prescribed/indicated.**

#### **10.4. Conditions to avoid**

Avoid heat. Avoid oxygen content above the product of less than 5 %. Avoid UV-light and other radiation with high energy. Avoid direct sunlight. Avoid prolonged storage. Avoid inhibitor loss. Avoid excessive temperatures. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing. Avoid moisture.

#### **10.5. Incompatible materials**

Substances to avoid:

radical formers, free radical initiators, peroxides, mercaptans, nitro-compounds, perborates, azides, ether, ketones, aldehydes, amines, nitrates, nitrites, oxidizing agents, reducing agents, strong bases, alkaline reactive substances, acid anhydrides, acid chlorides, concentrated mineral acids, metal salts  
Inert gas

#### **10.6. Hazardous decomposition products**

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## **SECTION 11: Toxicological Information**

### **11.1. Information on toxicological effects**

#### Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after short-term skin contact. Of moderate toxicity after single ingestion. Of pronounced toxicity after short-term inhalation.

Experimental/calculated data:

LD50 rat (oral): approx. 1,047 mg/kg (BASF-Test)

LC50 rat (by inhalation): 7 mg/l 4 h (BASF-Test)

The vapour was tested.

LD50 rabbit (dermal): 2,000 mg/kg (BASF-Test)

#### Irritation

Assessment of irritating effects:

Skin contact causes irritation. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: Irritant. (BASF-Test)

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Serious eye damage/irritation  
rabbit: non-irritant (BASF-Test)

#### Respiratory/Skin sensitization

Assessment of sensitization:  
Sensitization after skin contact possible.

Experimental/calculated data:  
Mouse Local Lymph Node Assay (LLNA) mouse: skin sensitizing (OECD Guideline 429)

#### Germ cell mutagenicity

Assessment of mutagenicity:  
The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals.

#### Carcinogenicity

Assessment of carcinogenicity:  
In long-term animal studies in which the substance was given by inhalation, a carcinogenic effect was not observed. The substance showed no carcinogenic activity in animals after chronic administration to the skin. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Reproductive toxicity

Assessment of reproduction toxicity:  
Animal studies gave no indication of a fertility impairing effect at doses which were not toxic to the parental animals. The chemical structure does not suggest a specific alert for such an effect. The results were determined in a Screening test (OECD 421/422).

#### Developmental toxicity

Assessment of teratogenicity:  
Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The chemical structure does not suggest a specific alert for such an effect. The results were determined in a Screening test (OECD 421/422).

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

Assessment of STOT single:  
Causes temporary irritation of the respiratory tract.

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#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The substance may cause damage to the olfactory epithelium after repeated inhalation.

#### Aspiration hazard

not applicable

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## SECTION 12: Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 2.37 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

Aquatic invertebrates:

EC50 (48 h) 8.74 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The statement of the toxic effect relates to the analytically determined concentration. The product is highly volatile. Tested in a closed test system.

Aquatic plants:

EC50 (72 h) 14.6 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)

The product is highly volatile. Tested in a closed test system. The statement of the toxic effect relates to the analytically determined concentration.

Microorganisms/Effect on activated sludge:

EC20 (0.5 h) approx. 950 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic)

Nominal concentration.

Chronic toxicity to fish:

Study scientifically not justified.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 0.136 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

No observed effect concentration (21 d) 0.19 mg/l, *Daphnia magna* (Flow through.)

The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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Assessment of terrestrial toxicity:

No toxic effects have been observed in studies with soil living organisms.

Study scientifically not justified.

Soil living organisms:

EC50 (28 d) > 1,000 mg/kg, soil dwelling microorganisms (OECD Guideline 217)

Terrestrial plants:

No data available.

Other terrestrial non-mammals:

No data available.

## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

Moderately/partially biodegradable. Not readily biodegradable (by OECD criteria).

Elimination information:

50 - 60 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (ISO 14593) (aerobic, activated sludge, domestic)

Assessment of stability in water:

In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis):

t<sub>1/2</sub> > 365 d (25 °C, pH value 7), (calculated, pH 7)

In contact with water the substance will hydrolyse slowly.

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

## 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

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## 12.6. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Uncleaned empties should be disposed of in the same manner as the contents.

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## SECTION 14: Transport Information

### Land transport

ADR

UN number or ID number:	UN1992
UN proper shipping name:	FLAMMABLE LIQUID, TOXIC, N.O.S. (contains TERT-BUTYLACRYLATE, STABILIZED)
Transport hazard class(es):	3, 6.1, EHSM
Packing group:	II
Environmental hazards:	yes
Special precautions for user:	Tunnel code: D/E

RID

UN number or ID number:	UN1992
UN proper shipping name:	FLAMMABLE LIQUID, TOXIC, N.O.S. (contains TERT-BUTYLACRYLATE, STABILIZED)
Transport hazard class(es):	3, 6.1, EHSM
Packing group:	II
Environmental hazards:	yes
Special precautions for user:	None known



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### **Inland waterway transport**

ADN

UN number or ID number: UN1992  
UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (contains TERT-BUTYLACRYLATE, STABILIZED)  
Transport hazard class(es): 3, 6.1, EHSM  
Packing group: II  
Environmental hazards: yes  
Special precautions for user: None known

### **Transport in inland waterway vessel**

Not evaluated

### **Sea transport**

IMDG

UN number or ID number: UN 1992  
UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (contains TERT-BUTYLACRYLATE, STABILIZED)  
Transport hazard class(es): 3, 6.1, EHSM  
Packing group: II  
Environmental hazards: yes  
Marine pollutant: YES  
Special precautions for user:

### **Air transport**

IATA/ICAO

UN number or ID number: UN 1992  
UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (contains TERT-BUTYLACRYLATE, STABILIZED)  
Transport hazard class(es): 3, 6.1  
Packing group: II  
Environmental hazards: No Mark as dangerous for the environment is needed  
Special precautions for user: None known

### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

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#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

#### **Further information**

This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

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### **SECTION 15: Regulatory Information**

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

##### Prohibitions, Restrictions and Authorizations

| UK REACH SI, Annex XVII, Marketing and Use Restrictions  
Number on List: 3

| UK REACH SI, Annex XVII, Marketing and Use Restrictions  
Number on List: 40

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 75, 3, 40

2015 No. 483 The Control of Major Accident Hazards Regulation.:

List entry in regulation: 43

Classification applies for standard conditions of temperature and pressure.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

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List entry in regulation: 43

Classification applies for standard conditions of temperature and pressure.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

## 15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

## SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Flam. Liq. 2  
 Aquatic Acute 2  
 Aquatic Chronic 2  
 Acute Tox. 4 (oral)  
 Acute Tox. 4 (dermal)  
 Acute Tox. 3 (Inhalation - vapour)  
 Skin Sens. 1  
 STOT SE 3 (irritating to respiratory system)  
 Skin Irrit. 2

Acrylic esters: Safe Handling and Storage aspects are covered in a brochure which is available on request.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Flam. Liq.	Flammable liquids
Acute Tox.	Acute toxicity
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity — single exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Aquatic Acute	Hazardous to the aquatic environment - acute
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H331	Toxic if inhaled.

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H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H302 + H312	Harmful if swallowed or in contact with skin.
H411	Toxic to aquatic life with long lasting effects.
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled.
H400	Very toxic to aquatic life.

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

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## Annex: Exposure Scenarios

### Index

#### 1. Polymer production

ERC6c; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9

#### 2. Use as laboratory reagent/agent

ERC1; PROC15

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### 1. Short title of exposure scenario

Polymer production

ERC6c; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9

### Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6c: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
Operational conditions	
Annual amount used in the EU	10,000,000 kg
Minimum emission days per year	20
Emission factor air	0.01 %
Emission factor water	0.1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Soil treatment measures considered suitable are, e.g.	No application of sludge to soil
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.430485
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	116,148 kg/d

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Risk from environmental exposure is driven by freshwater.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Wash off any skin contamination immediately. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding $> 480$ minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Use suitable chemically resistant gloves., Wear suitable working clothes., Change gloves, if duration of activity exceeds break through time,	

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Wear chemically resistant gloves in combination with 'basic' employee training., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0.0534 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.004855
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur.	

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Wash off any skin contamination immediately. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Use suitable chemically resistant gloves., Wear suitable working clothes., Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2.6702 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.242744
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance	



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of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear suitable working clothes., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2.6702 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.242744
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear suitable working clothes., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2.6702 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.242744
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding $> 480$ minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear suitable working clothes., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5.3404 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.485489
Assessment method	Qualitative assessment
	Worker - dermal

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### **Guidance to Downstream Users**

For scaling see: <http://www.ecetoc.org/tra>

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
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### **Operational conditions**

Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.

### **Risk Management Measures**

Wear suitable respiratory protection.	Effectiveness: 90 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear suitable working clothes., Wear	

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suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5.3404 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.485489
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Wear suitable respiratory protection.	Effectiveness: 90 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials also with prolonged, direct contact	

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(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear suitable working clothes., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	1.0681 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.097098
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	

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Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear suitable working clothes., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5.3404 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.485489
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Wear suitable respiratory protection.	Effectiveness: 90 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance	

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of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear suitable working clothes., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2.6702 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.242744
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week



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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Wear suitable respiratory protection.	Effectiveness: 90 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Wash off any skin contamination immediately. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Use suitable chemically resistant gloves., Wear suitable working clothes., Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2.6702 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.242744
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	
<b>Contributing exposure scenario</b>	

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<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear suitable working clothes., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6.6755 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0.606861
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding $> 480$ minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear	

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suitable working clothes., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6.6755 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.606861
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Wear suitable respiratory protection.	Effectiveness: 90 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials	

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also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear suitable working clothes., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2.6702 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.242744
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 2. Short title of exposure scenario

Use as laboratory reagent/agent  
ERC1; PROC15

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC1: Manufacture of the substance
<b>Operational conditions</b>	
Annual amount used in the EU	1,000 kg
Minimum emission days per year	20
Emission factor air	5 %
Emission factor water	6 %
Emission factor soil	0.01 %
Receive Surf. Water (Flow Rate).	18,000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100

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<b>Risk Management Measures</b>	
Soil treatment measures considered suitable are, e.g.	No application of sludge to soil
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.008632
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	579.2 kg/d
Risk from environmental exposure is driven by freshwater.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Drain down and flush system prior to equipment break-in or maintenance. Regular inspection and maintenance of equipment and machines. Wash off any skin contamination immediately. Avoid frequent and direct contact with substance. Avoid skin contact. Provide basic employee training to prevent/minimize exposures. Handle in accordance with good industrial hygiene and safety practice.	
Avoid inhalation of the product., Wear suitable personal protective equipment.	
Use suitable eye protection.	
Avoid skin contact. Clean up contamination as soon as they occur. Hand protection: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6,	

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corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness; nitrile rubber (NBR) - 0.4 mm coating thickness.	
Change gloves, if duration of activity exceeds break through time, Wear suitable working clothes., Wear suitable personal protective equipment.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5.3404 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.485489
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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