

# 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: 21.08.2023

Version: 12.0

Date previous version: 21.10.2022

Previous version: 11.0

Date / First version: 04.08.2004

Product: **tert-Butyl Methacrylate (TBMA)**

(ID no. 30042007/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 Methacrylate (TBMA)**

Chemical name: tert-butyl methacrylate

CAS Number: 585-07-9

REACH registration number: 01-2119486786-17-0000

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

Relevant identified uses: 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. 3	H226 Flammable liquid and vapour.
Skin Corr./Irrit. 2	H315 Causes skin irritation.
Eye Dam./Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3	H335 May cause respiratory irritation.

Specific Concentration Limits According to Regulation (EC) No 1272/2008 [CLP]

STOT SE 3, irr. to respiratory syst.:  $\geq 10\%$

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:

Warning

Hazard Statement:

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.

Precautionary Statements (Response):

P312	Call a POISON CENTER or physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements (Storage):

P403 + P235	Store in a well-ventilated place. Keep cool.
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Precautionary Statements (Disposal):

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P501

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

### 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.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

#### Chemical nature

tert-Butyl methacrylate

CAS Number: 585-07-9

EC-Number: 209-548-7

INDEX-Number: 607-134-00-4

#### Hazardous ingredients (GHS)

tert-Butyl methacrylate

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

CAS Number: 585-07-9

EC-Number: 209-548-7

INDEX-Number: 607-134-00-4

Flam. Liq. 3

Skin Corr./Irrit. 2

Eye Dam./Irrit. 2

STOT SE 3 (irr. to respiratory syst.)

H226, H319, H315, H335

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.: >= 10 %

methacrylic acid

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Content (W/W): $\geq 0\%$ - $\leq 0.1\%$	Acute Tox. 4 (oral)
CAS Number: 79-41-4	Acute Tox. 4 (Inhalation - mist)
EC-Number: 201-204-4	Acute Tox. 3 (dermal)
INDEX-Number: 607-088-00-5	Skin Corr./Irrit. 1A
	Eye Dam./Irrit. 1
	STOT SE 3 (irr. to respiratory syst.)
	H311, H335, H314, H302 + H332

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.:  $\geq 1\%$

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

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## 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:

Wash thoroughly with soap and water

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.

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

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

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

### **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: The product is combustible. 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.

### **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.

Pack in tightly closed containers for disposal.

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

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| 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**

Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

### **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

79-41-4: methacrylic acid

TWA value 72 mg/m<sup>3</sup> ; 20 ppm (WEL/EH 40 (UK))

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STEL value 143 mg/m<sup>3</sup> ; 40 ppm (WEL/EH 40 (UK))  
Ceiling limit value/factor: 15 min

#### PNEC

freshwater: 0.0169 mg/l

marine water: 0.0017 mg/l

STP: 10 mg/l

sediment (freshwater): 0.371 mg/kg

sediment (marine water): 0.0122 mg/kg

soil: 0.0144 mg/kg

#### DNEL

worker:

Long-term exposure- systemic effects, Inhalation: 125 mg/m<sup>3</sup>

worker:

Long-term exposure - local effects, Inhalation: 164 mg/m<sup>3</sup>

worker:

Long-term exposure- systemic effects, dermal: 2.8 mg/kg

consumer:

Long-term exposure- systemic effects, oral: 1.2 mg/kg

## 8.2. Exposure controls

#### Appropriate engineering controls

Provide local exhaust ventilation to maintain recommended P.E.L.

#### 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):

butyl rubber (butyl) - 0.7 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.



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Manufacturer's directions for use should be observed because of great diversity of types.

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 inhalation of vapour. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

#### 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:	The products resulting from hydrolysis react strongly acidic., neutral, of low solubility	
Melting point:	-48 °C	(other)
Boiling point:	Literature data. 136.51 °C (1,013.25 hPa)	(other)
Flash point:	25.5 °C	(ISO 13736, closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability:	Flammable liquid and vapour.	(derived from flash - and boiling point)
Lower explosion limit:	0.4 %(V) (12.5 °C)	

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	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point. 4.7 %(V) (52.5 °C)	
Ignition temperature:	For liquids not relevant for classification and labelling. 410 °C	
Vapour pressure:	Literature data. 7.13 hPa (25 °C)	(OECD Guideline 104)
Density:	0.875 g/cm <sup>3</sup> (20 °C, 1,013 hPa)	(other)
	Literature data. 0.8466 g/cm <sup>3</sup> (50 °C)	(OECD Guideline 109)
	0.842 g/cm <sup>3</sup> (55 °C)	(calculated)
Relative density:	0.8776 (20 °C)	(OECD Guideline 109)
Relative vapour density (air):	4.9 (20 °C)	(calculated)
Solubility in water:	Heavier than air.	(OECD Guideline 105)
	0.464 g/l (20 °C, pH 5.6 - 6.9)	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	2.54 (25 °C)	(measured)
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:	0.70 mPa.s (40 °C)	(OECD 114)
	The value was determined by calculation from the detected kinematic viscosity.	

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	0.97 mPa.s (20 °C)	(OECD 114)
	The value was determined by calculation from the detected kinematic viscosity.	
Viscosity, kinematic:	0.82 mm <sup>2</sup> /s (40 °C)	(OECD 114)
	1.10 mm <sup>2</sup> /s (20 °C)	(OECD 114)
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:	not applicable, the product is a liquid	
SADT:	Not a substance/mixture liable to self-decomposition according to GHS.	
pKA:	The substance does not dissociate.	
Adsorption/water - soil:	KOC: 36.19; log KOC: 1.56	(calculated)
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Grain size distribution:	The substance / product is marketed or used in a non solid or granular form.	
Molar mass:	142.20 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.

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### **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.**

**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:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): > 2,000 mg/kg (Guideline 92/69/EEC, B.1)

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No mortality was observed.

LC50 rat (by inhalation): > 10.17 mg/l 4 h (OECD Guideline 403)

No mortality was observed. An aerosol was tested.

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

No mortality was observed.

#### Irritation

Assessment of irritating effects:

Skin contact causes irritation. Eye contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation

rabbit: Irritant. (OECD Guideline 405)

#### Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (similar to OECD guideline 406)

Literature data.

#### 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. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

#### Carcinogenicity

Assessment of carcinogenicity:

No data available concerning carcinogenic effects.

#### Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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#### Developmental toxicity

Assessment of teratogenicity:

In animal studies the substance did not cause malformations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure. The European Union (EU) has classified the substance as "causing irritation of the respiratory tract"

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

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

#### Aspiration hazard

not applicable

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to 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) 63 mg/l, *Oncorhynchus mykiss* (OECD 203; ISO 7346; 84/449/EEC, C.1, semistatic)

Aquatic invertebrates:

EC50 (48 h) 39 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 26 mg/l (growth rate), *Scenedesmus subspicatus* (OECD Guideline 201, static)

No observed effect concentration (72 h) 6 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)

Microorganisms/Effect on activated sludge:

EC20 (30 min) approx. 1,000 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

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Chronic toxicity to fish:

No observed effect concentration (35 d) 9.4 mg/l, Brachydanio rerio (OECD Guideline 210)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 1.1 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.

Assessment of terrestrial toxicity:

No data available.

## 12.2. Persistence and degradability

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

Biodegradable.

Elimination information:

68 % TIC of the ThIC (60 d) (OECD Guideline 310) (aerobic, activated sludge, domestic)

< 10 % BOD of the ThOD (29 d) (OECD Guideline 301 F) (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> 135 d (pH value 7), (OECD Guideline 111, pH 7)

In contact with water the substance will hydrolyse slowly.

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Does not accumulate in organisms.

Bioaccumulation potential:

Bioconcentration factor (BCF): 16.52, Fish (calculated)

## 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

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According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria.

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling vPvB (very persistent/very bioaccumulative) criteria.

### 12.6. Other adverse effects

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

### 12.7. Additional information

Other ecotoxicological advice:

Do not release untreated into natural waters. Do not discharge product into the environment without control.

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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: UN3272

UN proper shipping name: ESTERS, N.O.S. (contains METHACRYLIC ACID-TERT-BUTYLESTER, STABILIZED)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Special precautions for Tunnel code: D/E



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user:

RID

UN number or ID number: UN3272

UN proper shipping name: ESTERS, N.O.S. (contains METHACRYLIC ACID-TERT-BUTYLESTER, STABILIZED)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Special precautions for user: None known

#### **Inland waterway transport**

ADN

UN number or ID number: UN3272

UN proper shipping name: ESTERS, N.O.S. (contains METHACRYLIC ACID-TERT-BUTYLESTER, STABILIZED)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Special precautions for user: None known

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

Not evaluated

#### **Sea transport**

IMDG

UN number or ID number: UN 3272

UN proper shipping name: ESTERS, N.O.S. (contains METHACRYLIC ACID-TERT-BUTYLESTER, STABILIZED)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Marine pollutant: NO

Special precautions for user:

#### **Air transport**

IATA/ICAO

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UN number or ID number: UN 3272  
UN proper shipping name: ESTERS, N.O.S. (contains METHACRYLIC ACID-TERT-BUTYLESTER, STABILIZED)  
Transport hazard class(es): 3  
Packing group: III  
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.

#### **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**

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):  
List entry in regulation: P5c

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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)

Skin Corr./Irrit. 2  
 Eye Dam./Irrit. 2B  
 STOT SE 3 (irritating to respiratory system)  
 Flam. Liq. 3  
 Aquatic Acute 3

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

Flam. Liq.	Flammable liquids
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
STOT SE	Specific target organ toxicity — single exposure
Acute Tox.	Acute toxicity
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H302 + H332	Harmful if swallowed or if inhaled.

### 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

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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. Formulation & (re)packing of substances and mixtures, Downstream User

ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

2. Manufacture of substance

ERC1; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC15

3. Polymer production

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

4. Polymer production, Downstream User

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

5. Use as laboratory reagent/agent

ERC6c; PROC15

\*\*\*\*\*

### 1. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, Downstream User

ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

### Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation into mixture
Operational conditions	
Annual amount used in the EU	1,500,000 kg
Minimum emission days per year	225
Emission factor air	0.01 %
Emission factor water	0.05 %
Emission factor soil	0.1 %
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

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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 v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.162407
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	3,078.7 kg/d
Risk from environmental exposure is driven by marine sediment.	

<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0034 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001224
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.0592 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000474
<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

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	Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-Butyl methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.04898
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	29.6241 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.236993
<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
<b>Operational conditions</b>	
Concentration of the substance	tert-Butyl methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in	Effectiveness: 90 %

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combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.02449
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	59.2482 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.473985
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.244898
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	35.5489 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.284391
<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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<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor

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	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.244898
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	44.4361 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.355489
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.2057 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.073469
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587
<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>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-Butyl methacrylate Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.012245
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	59.2482 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.473985
<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

Manufacture of substance

ERC1; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, 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	1,500,000 kg
Minimum emission days per year	300
Emission factor air	0.001 %
Emission factor water	0.3 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	43,541 m <sup>3</sup> /min
Dilution factor river	187.67

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Dilution factor coast	1,876.68
<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)	335,890 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.024645
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	202,880 kg/d
Risk from environmental exposure is driven by soil.	

<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0034 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001224
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.0592 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000474
<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>	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 methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.04898
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	29.6241 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.236993
<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
<b>Operational conditions</b>	
Concentration of the substance	tert-Butyl methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.02449
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	59.2482 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.473985
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587

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### **Guidance to Downstream Users**

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

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
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### **Operational conditions**

Concentration of the substance	tert-Butyl methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.

### **Risk Management Measures**

Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %

### **Exposure estimate and reference to its source**

Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	26.6617 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.213293

### **Guidance to Downstream Users**

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

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
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### **Operational conditions**

Concentration of the substance	tert-Butyl methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance	713 Pa



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during use	
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587
<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>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	tert-Butyl methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.012245
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	59.2482 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.473985
<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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### 3. Short title of exposure scenario

Polymer production

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

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC6c: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
<b>Operational conditions</b>	
Annual amount used in the EU	1,500,000 kg
Minimum emission days per year	40
Emission factor air	1 %
Emission factor water	0.1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	43,541 m <sup>3</sup> /min
Dilution factor river	187.67
Dilution factor coast	1,876.68
<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 (m <sup>3</sup> /d)	335,890 m <sup>3</sup> /d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.106045
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	212,173.4 kg/d
Risk from environmental exposure is driven by soil.	
<b>Contributing exposure scenario</b>	

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<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 methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0034 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001224
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.0592 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000474
<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 methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.

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<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.04898
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	29.6241 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.236993
<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
<b>Operational conditions</b>	
Concentration of the substance	tert-Butyl methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.02449
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	59.2482 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.473985
<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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<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.244898
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	35.5489 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.284391
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.244898
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	44.4361 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.355489
<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 methacrylate

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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587
<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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#### 4. Short title of exposure scenario

Polymer production, Downstream User

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

#### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC6c: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
<b>Operational conditions</b>	
Annual amount used in the EU	1,500,000 kg
Minimum emission days per year	90
Emission factor air	1 %
Emission factor water	0.1 %



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Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<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 v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.644839
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	1,550.8 kg/d
Risk from environmental exposure is driven by marine sediment.	

<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0034 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001224
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	0.0592 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000474
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.04898
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	29.6241 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.236993
<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
<b>Operational conditions</b>	
Concentration of the substance	tert-Butyl methacrylate Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.02449
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	59.2482 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.473985
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 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>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.244898
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	35.5489 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.284391
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587
<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

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<b>Operational conditions</b>	
Concentration of the substance	tert-Butyl methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587
<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 methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 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>	
Provide a good standard of general or controlled ventilation (5 to 10 air	Effectiveness: 70 %

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changes per hour)	
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.244898
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	44.4361 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.355489
<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 methacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	713 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.4114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.146939
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	53.3234 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.426587
<b>Guidance to Downstream Users</b>	

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

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## 5. Short title of exposure scenario

Use as laboratory reagent/agent  
ERC6c; PROC15

### 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 kg
Minimum emission days per year	20
Emission factor air	5 %
Emission factor water	5 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	43,541 m3/min
Dilution factor river	187.67
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)	335,890 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.098368
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	5,083 kg/d
Risk from environmental exposure is driven by marine sediment.	
Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	tert-Butyl methacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	713 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 chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.012245
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	59.2482 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.473985
<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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