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Safety data sheet

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.
Date / Revised: 23.09.2025 Version: 5.0
Date / Previous version: 02.04.2024 Previous version: 4.0
Product: **BUTYL ACRYLATE**
(ID no. 30041258/SDS_GEN_DE/EN)
Date of print 11.10.2025

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

1.1. Product identifier

BUTYL ACRYLATE

Chemical name: n-butyl acrylate
INDEX-Number: 607-062-00-3
CAS Number: 141-32-2

REACH registration number: 01-2119453155-43-0000, 01-2119453155-43-0167, 01-2119453155-43-0134, 01-2119453155-43-0044, 01-2119453155-43-0016, 01-2119453155-43-0002, 01-2119453155-43-0025, 01-2119453155-43, 01-2119453155-43-0065

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

Relevant identified uses: Monomer.
Uses advised against: All consumer uses are strongly advised against., Use of substance in adhesives (professional), Use of substance in coatings (professional), Use of substance in inks and toners (professional)
Recommended use: for industrial use only
Not recommended use: cosmetics, Pharmaceutical

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
Operating Division Petrochemicals

Telephone: +49 621 60-42151
E-mail address: sds-petrochemicals@basf.com

1.4. Emergency telephone number

International emergency number:
Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3	H226 Flammable liquid and vapour.
Acute Tox. 4 (Inhalation - vapour)	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

According to BASF current knowledge and application of the criteria given in Annex I of Regulation (EC) No. 1272/2008, the following classification exceeding the classification given in Regulation (EC) No 1272/2008, Annex VI, Table 3.1 is required.

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

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 Regulation (EC) No 1272/2008 [CLP]

Pictogram:

Signal Word:

Warning

Hazard Statement:

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.

H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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):

P233	Keep container tightly closed.

Precautionary Statements (Disposal):

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

Hazard determining component(s) for labelling: n-butyl acrylate

2.3. Other hazards

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

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.
Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).
Skin resorption hazard.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

n-butyl acrylate

	Flam. Liq. 3
CAS Number: 141-32-2	Acute Tox. 4 (Inhalation - vapour)
EC-Number: 205-480-7	Skin Irrit. 2
INDEX-Number: 607-062-00-3	Eye Irrit. 2
	Skin Sens. 1
Substance with EU occupational exposure limit	STOT SE 3 (irr. to respiratory syst.)
	Aquatic Chronic 3

	H226, H319, H315, H332, H317, H335, H412 Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008 Flam. Liq. 3 Acute Tox. 4 (Inhalation - vapour) Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1B STOT SE 3 (irr. to respiratory syst.) Aquatic Chronic 3

Regulatory relevant ingredients

n-butyl acrylate

Content (W/W): >= 99,5 % - <= 100 % CAS Number: 141-32-2 EC-Number: 205-480-7 INDEX-Number: 607-062-00-3 Substance with EU occupational exposure limit	Flam. Liq. 3 Acute Tox. 4 (Inhalation - vapour) Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3 (irr. to respiratory syst.) Aquatic Chronic 3 H226, H319, H315, H332, H317, H335, H412 Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008 Flam. Liq. 3 Acute Tox. 4 (Inhalation - vapour) Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1B STOT SE 3 (irr. to respiratory syst.) Aquatic Chronic 3

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:
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

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

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.

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.

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.

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.

Temperature class: T3 (Autoignition temperature >200 °C).

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 class according to TRGS 510 (originally VCI, Germany): (3) Flammable liquids

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.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany.

141-32-2: n-butyl acrylate

STEL value 53 mg/m3 ; 10 ppm (OEL (EU))
indicative
TWA value 11 mg/m3 ; 2 ppm (OEL (EU))
indicative

Short Term Exposure Classification: (TRGS 900 (DE))
Category I: Substances for which the localized effect has an assigned exposure limit or for substances with a sensitizing effect in respiratory passages
OEL 11 mg/m3 ; 2 ppm (TRGS 900 (DE))
Ceiling limit value/factor: 2
If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)
Skin Designation (TRGS 900 (DE))
The substance can be absorbed through the skin.
TWA value 11 mg/m3 ; 2 ppm (EU SCOEL)
Ceiling limit value/factor: 8HR
STEL value 53 mg/m3 ; 10 ppm (EU SCOEL)
Ceiling limit value/factor: 15 min

PNEC

water: 0,00272 mg/l

marine water: 0,000272 mg/l

STP: 3,5 mg/l

sediment (freshwater): 0,0338 mg/kg

sediment (marine water): 0,00338 mg/kg

soil: 1 mg/kg

DNEL

worker:
Long-term exposure - local effects, Inhalation: 11 mg/m3

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):
butyl rubber (butyl) - 0.7 mm coating thickness
nitrile rubber (NBR) - 0.4 mm coating thickness
Manufacturer's directions for use should be observed because of great diversity of types.

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.

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 the skin, eyes and clothing. Avoid inhalation of vapour. 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

State of matter:	liquid	
Form:	liquid	
Colour:	colourless	
Odour:	acrylic-like	
Odour threshold:	not determined	
Melting point:	-64,6 °C Literature data. The substance / product does not decompose.	
Boiling point:	147 °C (1.013 hPa)	
Flammability:	Flammable liquid and vapour.	(derived from flash 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.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Flash point:	38 °C	(DIN 51755, closed cup)

Auto-ignition temperature:	275 °C	(DIN 51794)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
SADT:	Not a substance/mixture liable to self-decomposition according to GHS.	
pH value:	not applicable	
Viscosity, kinematic:	(20 °C) not determined	
Viscosity, dynamic:	0,88 mPa.s (20 °C) 0,66 mPa.s (40 °C)	
Thixotropy:	not thixotropic	
Solubility in water:	1,7 g/l (20 °C)	(OECD Guideline 105)
Solubility (qualitative) solvent(s):	organic solvents miscible	
Partitioning coefficient n-octanol/water (log Kow):	2,38 (25 °C)	(measured)
Vapour pressure:	5 hPa (22,2 °C)	
Relative density:	0,9 (20 °C)	
Density:	0,899 g/cm3 (20 °C) 0,8689 g/cm3 (50 °C) 0,8639 g/cm3 (55 °C)	 (calculated)
Relative vapour density (air):	4,41 (20 °C) Heavier than air.	(calculated)

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

Impact sensitivity:

Based on the chemical structure there is no shock-sensitivity.

Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Flammable liquids

Sustained combustibility:
not determined

Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-ignition at room-temperature.

Based on its structural properties the product is not classified as self-igniting.

Self-heating substances and mixtures

Self heating ability: not applicable, the product is a liquid

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases:
Forms no flammable gases in the presence of water.

Corrosion to metals

No corrosive effect on metal.

Other safety characteristics

pKA:
The substance does not dissociate.

Adsorption/water - soil: KOC: 88,4; log KOC: 1,95 (OECD Guideline 106)
Adsorption to solid soil phase is not expected.

Surface tension:
Based on chemical structure, surface activity is not to be expected.

Molar mass: 128,17 g/mol

SAPT-Temperature:
According to SP386 it is ensured that the level of chemical stabilization is sufficient to prevent dangerous polymerization during total duration of carriage. - This information is valid for the recently stabilized product.

Evaporation rate:
Value can be approximated from Henry's Law Constant or vapor pressure.

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.

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.

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.

SECTION 11: Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Assessment of acute toxicity:

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

Experimental/calculated data:

LD50 rat (oral): 3.150 mg/kg (BASF-Test)
LC50 rat (by inhalation): 10,3 mg/l 4 h (OECD Guideline 403)
The vapour was tested.
LD50 rabbit (dermal): 2.000 - 3.024 mg/kg (other)

Irritation

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: Irritant. (BASF-Test)

Serious eye damage/irritation

rabbit: Irritant. (other)

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. 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:
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. IARC Group 3 (not classifiable as to human carcinogenicity).

Reproductive toxicity

Assessment of reproduction toxicity:
The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Specific target organ toxicity (single exposure)

Assessment of STOT single:
Causes temporary 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 substance may cause damage to the olfactory epithelium after repeated inhalation.

Aspiration hazard

not applicable

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of

substances of very high concern according to EU REACh Article 59 for having endocrine disrupting properties.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:
Acutely toxic for aquatic organisms. Harmful to aquatic organisms based on long-term (chronic) toxicity study data. 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) 2,1 mg/l, Cyprinodon variegatus (OECD Guideline 203, Flow through.)
The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates:
EC50 (48 h) 8,2 mg/l, Daphnia magna (OECD Guideline 202, part 1, Flow through.)
The statement of the toxic effect relates to the analytically determined concentration.

Aquatic plants:
EC50 (96 h) 2,65 mg/l, Selenastrum capricornutum (OECD Guideline 201, static)
The statement of the toxic effect relates to the analytically determined concentration.

Microorganisms/Effect on activated sludge:
EC0 (3 d) > 150 mg/l, activated sludge, industrial (other, aerobic)
Nominal concentration.

Chronic toxicity to fish:
No data available.

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.

Assessment of terrestrial toxicity:
No effects at the highest test concentration.
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Soil living organisms:
EC50 (28 d) > 1.000 mg/kg, soil dwelling microorganisms (OECD Guideline 217)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The details of the toxic effect relate to the nominal concentration.

Terrestrial plants:
No data available.

Other terrestrial non-mammals:
No data available.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):
Readily biodegradable (according to OECD criteria).

Elimination information:
80 - 90 % TIC of the ThIC (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):
$t_{1/2}$ 1.100 d (25 °C, pH value7), (OECD Guideline 111, pH 7)
In contact with water the substance will hydrolyse slowly.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:
Accumulation in organisms is not to be expected.

Bioaccumulation potential:

Bioconcentration factor(BCF): 17,3 (calculated)
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 substance does not fulfill the PBT criteria. The substance does not fulfill the vPvB criteria.Self classification

12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of

substances of very high concern according to EU REACh Article 59 for having endocrine disrupting properties.

12.7. Other adverse effects

The substance is not listed in Regulation (EU) 2024/590 on substances that deplete the ozone layer.

Results of PMT and vPvM assessment

The substance does not fulfill the PMT criteria. The substance does not fulfill the vPvM criteria. (Regulation (EC) No 1272/2008)

Additional information

Other ecotoxicological advice:
Do not release untreated into natural waters. Acutely toxic for aquatic organisms.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

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

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

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number:	UN2348
UN proper shipping name:	BUTYL ACRYLATES, STABILIZED
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	Tunnel code: D/E

RID

UN number or ID number:	UN2348
UN proper shipping name:	BUTYL ACRYLATES, 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:	UN2348
UN proper shipping name:	BUTYL ACRYLATES, STABILIZED
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

Transport in inland waterway vessel

UN number or ID number:	UN2348
UN proper shipping name:	BUTYL ACRYLATES, STABILIZED (n-BUTYL ACRYLATE, STABILIZED)
Transport hazard class(es):	3, INST, N3
Packing group:	III
Environmental hazards:	yes
Type of inland waterway vessel:	C
Cargo tank design:	2
Cargo tank type:	2

Sea transport

IMDG

UN number or ID number:	UN 2348
UN proper shipping name:	BUTYL ACRYLATES, STABILIZED
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no Marine pollutant: NO
Special precautions for user:	EmS: F-E; S-D

Air transport

IATA/ICAO

UN number or ID number:	UN 2348
UN proper shipping name:	BUTYL ACRYLATES, 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

Regulation:	IBC-Code
Product name:	Butyl acrylate (all isomers)
Pollution category:	Y
Ship Type:	3

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

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

Hazardous Incident Ordinance (Germany):
List entry in regulation: 1.2.5.3
Classification applies for standard conditions of temperature and pressure.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
List entry in regulation: P5c
Classification applies for standard conditions of temperature and pressure.

Classification according to 'TA-Luft' (Germany):

5.2.5 class I: Organic gases class I

Water hazard class (§6 AwSV para.4 (Legal binding announcement of the substance in the Federal Gazette)): (1) Weakly water polluting. ID-No.: 12

The specifications of the Technical Rule for Hazardous Substances (TRGS) 401 must be observed (TRGS 401: Risks resulting from skin contact - identification, assessment, measures).
German Regulation TA Luft (Technical Instruction on Air Quality Control, i.e. first Directive to the Federal Immission Control Ordinance)
Law on the Protection of Working Youth

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)

Aquatic Acute 2
Aquatic Chronic 3
Acute Tox. 5 (oral)
Acute Tox. 4 (Inhalation - vapour)
Acute Tox. 5 (dermal)
Skin Irrit. 2
Eye Irrit. 2A
STOT SE 3 (irritating to respiratory system)
Flam. Liq. 3
Skin Sens. 1B

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
Eye Irrit.	Eye irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity — single exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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.

Annex: Exposure Scenarios

Index

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1. Short title of exposure scenario

Polymer production, (use in industrial settings)
SU8, SU9, SU12; 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	12.900.000 kg
Minimum emission days per year	300
Emission factor air	1 %
Emission factor water	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	
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 v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,805975
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	10.670,3 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0534 mg/m³
Risk Characterization Ratio (RCR)	0,004855
Assessment method	Qualitative assessment
	Worker - dermal

Additional good practice advice
Local exhaust ventilation and / or general ventilation are / is advisable.
Guidance to Downstream Users
For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2,6702 mg/m³
Risk Characterization Ratio (RCR)	0,242744
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Avoid skin contact. Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2,6702 mg/m³
Risk Characterization Ratio (RCR)	0,242744
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed

	continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	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
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,3404 mg/m³
Risk Characterization Ratio (RCR)	0,485489
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	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

Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,3404 mg/m³
Risk Characterization Ratio (RCR)	0,485489
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid

Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	7,4765 mg/m³
Risk Characterization Ratio (RCR)	0,679684
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa

Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	7,4765 mg/m³
Risk Characterization Ratio (RCR)	0,679684
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	9,3457 mg/m³
Risk Characterization Ratio (RCR)	0,849605
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general or	Effectiveness: 70 %

controlled ventilation (5 to 10 air changes per hour)	
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 95 %

Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	9,3457 mg/m³
Risk Characterization Ratio (RCR)	0,849605
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up	

contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,6755 mg/m³
Risk Characterization Ratio (RCR)	0,606861
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear	

chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,6755 mg/m³
Risk Characterization Ratio (RCR)	0,606861
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee	

training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	

Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	9,3457 mg/m³
Risk Characterization Ratio (RCR)	0,849605
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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2. Short title of exposure scenario

Polymer production, Downstream User, (use in industrial settings)
SU8, SU9, SU12; 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	16.300.000 kg	
Minimum emission days per year	300	
Emission factor air	1 %	
Emission factor water	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		
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 v4.2, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0,805975	
	Risk from environmental exposure is driven by freshwater sediment.	

Maximum amount of safe use	33.706,6 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0534 mg/m³
Risk Characterization Ratio (RCR)	0,004855
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2,6702 mg/m³
Risk Characterization Ratio (RCR)	0,242744
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

	Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2,6702 mg/m³
Risk Characterization Ratio (RCR)	0,242744
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate

	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	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
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %

Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,3404 mg/m³
Risk Characterization Ratio (RCR)	0,485489
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	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
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	500 Pa

during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,3404 mg/m³
Risk Characterization Ratio (RCR)	0,485489
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	7,4765 mg/m³
Risk Characterization Ratio (RCR)	0,679684
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,3404 mg/m³
Risk Characterization Ratio (RCR)	0,485489
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	

Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up	

contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	9,3457 mg/m³
Risk Characterization Ratio (RCR)	0,849605
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination	

immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity	

exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	9,3457 mg/m³
Risk Characterization Ratio (RCR)	0,849605
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	

Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,6755 mg/m³
Risk Characterization Ratio (RCR)	0,606861
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,6755 mg/m³
Risk Characterization Ratio (RCR)	0,606861
Assessment method	Qualitative assessment

	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	

Local exhaust ventilation and / or general ventilation are / is advisable.
Guidance to Downstream Users
For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	9,3457 mg/m³
Risk Characterization Ratio (RCR)	0,849605
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	

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

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3. Short title of exposure scenario

Use as an intermediate, (use in industrial settings)
SU8, SU9, SU12; ERC6a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Use of intermediate
Operational conditions	
Annual amount used in the EU	6.160.000 kg
Minimum emission days per year	300
Emission factor air	1 %
Emission factor water	0,7 %
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	
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 v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,805975
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	5.095,3 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial

Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0534 mg/m³
Risk Characterization Ratio (RCR)	0,004855
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %

Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2,6702 mg/m³
Risk Characterization Ratio (RCR)	0,242744
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2,6702 mg/m³
Risk Characterization Ratio (RCR)	0,242744
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	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
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

Local exhaust ventilation	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,3404 mg/m³
Risk Characterization Ratio (RCR)	0,485489
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	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
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	

Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2,6702 mg/m³
Risk Characterization Ratio (RCR)	0,242744
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	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
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 90 %
Ensure doors and windows are opened (general ventilation).	

Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,7383 mg/m³
Risk Characterization Ratio (RCR)	0,339842
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with	

contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	7,4765 mg/m³
Risk Characterization Ratio (RCR)	0,679684
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity	

exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,3404 mg/m³
Risk Characterization Ratio (RCR)	0,485489
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with 'basic' employee	

training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker

	Worker - inhalation, long-term - local
Exposure estimate	9,3457 mg/m³
Risk Characterization Ratio (RCR)	0,849605
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³

Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	9,3457 mg/m³
Risk Characterization Ratio (RCR)	0,849605
Assessment method	Qualitative assessment

	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,6755 mg/m³
Risk Characterization Ratio (RCR)	0,606861
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,6755 mg/m³
Risk Characterization Ratio (RCR)	0,606861
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial

Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,0106 mg/m³
Risk Characterization Ratio (RCR)	0,728233
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	

Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear suitable respiratory protection.	Effectiveness: 95 %
Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	9,3457 mg/m³
Risk Characterization Ratio (RCR)	0,849605
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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4. Short title of exposure scenario

Use as laboratory reagent/agent, (use in industrial settings)
ERC1; PROC15

Control of exposure and risk management measures

Contributing exposure scenario		
Use descriptors covered	ERC1: Manufacture of the substance	
Operational conditions		
Annual amount used in the EU	6.160.000 kg	
Minimum emission days per year	100	
Emission factor air	5 %	
Emission factor water	6 %	
Emission factor soil	0,01 %	
Receive Surf. Water (Flow Rate).	18.000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
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 v4.2, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0,805975	
	Risk from environmental exposure is driven by freshwater sediment.	
Maximum amount of safe use	15.285,8 kg/d	
Risk from environmental exposure is driven by freshwater sediment.		

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	500 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid skin contact. Ensure doors and windows are opened (general ventilation).	
Use suitable eye protection.	
Avoid skin contact. Avoid contact with contaminated tools. Clean up contamination as soon as they occur. Wash off any skin contamination immediately.	
Change gloves, if duration of activity exceeds break through time, Wear chemically resistant gloves in combination with ‘basic’ employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,3404 mg/m³
Risk Characterization Ratio (RCR)	0,485489
Assessment method	Qualitative assessment
	Worker - dermal
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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