

Safety data sheet

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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: 14.05.2025

Version: 5.0

Date / Previous version: 20.09.2023

Previous version: 4.0

Product: **Behenyl Acrylate 1822 F (BEA 1822 F)**

(ID no. 30530447/SDS_GEN_DE/EN)

Date of print 07.07.2025

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

1.1. Product identifier

Behenyl Acrylate 1822 F (BEA 1822 F)

Chemical name: Reaction mass of Docosyl acrylate and Octadecyl acrylate

INDEX-Number: 607-133-00-9

REACH registration number: 01-2120930781-55-0000

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

Relevant identified uses: Monomer for manufacturing of polymers

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

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SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

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

Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.
STOT SE 3	H335 May cause respiratory irritation.
Eye Dam./Irrit. 2	H319 Causes serious eye irritation.
Skin Corr./Irrit. 2	H315 Causes skin irritation.

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

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

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

2.2. Label elements

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

Pictogram:



Signal Word:

Warning

Hazard Statement:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P273	Avoid release to the environment.

Precautionary Statements (Response):

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

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Labeling of special preparations (GHS):

EUH208: May produce an allergic reaction. Contains: Octadecyl acrylate

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Hazard determining component(s) for labelling: Octadecyl acrylate, Docosyl acrylate, Hexadecyl acrylate, Icosyl 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).

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

Reaction mass of Docosyl acrylate and Octadecyl acrylate

Content (W/W): 100 %

Aquatic Chronic 2

STOT SE 3 (irr. to respiratory syst.)

Eye Irrit. 2

Skin Irrit. 2

H319, H315, H335, H411

EUH208

Specific concentration limit:

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

Regulatory relevant ingredients

Octadecyl acrylate

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	Content (W/W): $\geq 37\%$ - $\leq 47\%$	Skin Irrit. 2
	CAS Number: 4813-57-4	Eye Irrit. 2
	EC-Number: 225-383-3, 225-383-3	Skin Sens. 1
	INDEX-Number: 607-133-00-9	STOT SE 3 (irr. to respiratory syst.)
		Aquatic Chronic 2
		H319, H315, H317, H335, H411
		<u>Specific concentration limit:</u>
		STOT SE 3, irr. to respiratory syst.: $\geq 10\%$
Docosyl acrylate		
	Content (W/W): $\geq 34\%$ - $\leq 46\%$	STOT SE 3 (irr. to respiratory syst.)
	CAS Number: 18299-85-9	Skin Irrit. 2
	EC-Number: 242-182-6, 242-182-6	Eye Irrit. 2
	INDEX-Number: 607-133-00-9	Aquatic Chronic 2
		H319, H315, H335, H411
		<u>Specific concentration limit:</u>
		STOT SE 3, irr. to respiratory syst.: $\geq 10\%$
Icosyl acrylate		
	Content (W/W): $\geq 8\%$ - $\leq 13\%$	STOT SE 3 (irr. to respiratory syst.)
	CAS Number: 48076-38-6	Skin Irrit. 2
	EC-Number: 256-350-1, 256-350-1	Eye Irrit. 2
	INDEX-Number: 607-133-00-9	Aquatic Chronic 2
		H319, H315, H335, H411
		<u>Specific concentration limit:</u>
		STOT SE 3, irr. to respiratory syst.: $\geq 10\%$
Tetracosyl acrylate		
	Content (W/W): $\geq 0,1\%$ - $\leq 2\%$	Skin Irrit. 2
	CAS Number: 50698-54-9	Eye Irrit. 2
	EC-Number: 256-721-8	STOT SE 3 (irr. to respiratory syst.)
	INDEX-Number: 607-133-00-9	Aquatic Chronic 2
		H319, H315, H335, H411
		<u>Specific concentration limit:</u>
		STOT SE 3, irr. to respiratory syst.: $\geq 10\%$
Hexadecyl acrylate		

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Content (W/W): $\geq 0\%$ - $< 1\%$	Skin Irrit. 2
CAS Number: 13402-02-3	Eye Irrit. 2
EC-Number: 236-492-0, 236-492-0	Skin Sens. 1
INDEX-Number: 607-133-00-9	STOT SE 3 (irr. to respiratory syst.)
	Aquatic Chronic 2
	H319, H315, H317, H335, H411

Specific concentration limit:

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

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., (Further) symptoms and / or effects are not known so far

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

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

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

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

5.2. Special hazards arising from the substance or mixture

Advice: 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.

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Pack in tightly closed containers for disposal.

6.1. Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

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

6.4. Reference to other sections

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

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. 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 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:

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Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge. It is recommended that all conductive parts of the machinery are grounded.

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

7.2. Conditions for safe storage, including any incompatibilities

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

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

Risk of polymerization. Protect against heat. 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): (11) Combustible solids

Storage stability:

Storage temperature: < 45 °C

Storage duration: 12 Months

Storage temperature: < 60 °C

Storage duration: < 1 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.

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

No substance specific occupational exposure limits known.

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PNEC

No PNEC value available.

DNEL

worker:

Long-term exposure- systemic effects, Inhalation: 97,9 mg/m³

worker:

Long-term exposure- systemic effects, dermal: 138,9 mg/m³

8.2. Exposure controls

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:

nitrile rubber (NBR) - 0.4 mm coating thickness

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

Eye protection:

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

Body protection:

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

General safety and hygiene measures

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

Environmental exposure controls

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

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	solid	
Form:	solid, waxy type	
Colour:	cream, almost white	
Odour:	oily	
Odour threshold:		
	not determined	
Melting temperature:	-5 - 45 °C	(OECD Guideline 102)
Boiling point:	(1.013 hPa) The substance / product decomposes therefore not determined.	
Flammability:	hardly combustible	(Directive 84/449/EEC, A.10)
Lower explosion limit:		
	For solids not relevant for classification and labelling.	
Upper explosion limit:		
	For solids not relevant for classification and labelling.	
Flash point:		
	not applicable, the product is a solid	
Auto-ignition temperature:		
	not applicable	
Self-ignition temperature:	Temperature: > 400 °C	Test type: Self-ignition at high temperatures. (Method: Directive 84/449/EEC, A.16)
	No self ignition was observed up to the specified temperature.	
Thermal decomposition:	185 °C, < 300 J/g (DSC (OECD 113))	
SADT:	Not a substance/mixture liable to self-decomposition according to GHS.	
pH value:		
	not applicable, insoluble	
Viscosity, kinematic:		
	not applicable, the product is a solid	
Viscosity, dynamic:		
	not applicable, the product is a solid	
Thixotropy:	not thixotropic	
Solubility in water:		(OECD Guideline 105)
	< 0,1 mg/l (20 °C, pH 6,1)	
Partitioning coefficient n-octanol/water (log Kow):	> 6,5 (23 °C; pH value: 6,4)	(OECD Guideline 117)
Vapour pressure:	< 0,000001 hPa (20 °C)	(OECD Guideline 104)
Relative density:	0,945 (20 °C)	

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Density:	0,945 g/cm ³ (20 °C)	(OECD Guideline 109)
Relative vapour density (air):	> 1 (20 °C) Heavier than air.	(estimated)

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.

Oxidizing properties

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

Pyrophoric properties

Self-ignition temperature: Temperature: 20 °C
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 tested on account of the low melting-point.

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

Corrosive effects to metal are not anticipated.

Other safety characteristics

Bulk density:	approx. 945 kg/m ³ (20 °C)	(OECD Guideline 109)
pKA:	not soluble, The substance does not dissociate.	
Hygroscopy:	Non-hygroscopic	
Adsorption/water - soil:	log KOC: 5,20	(calculated)

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Surface tension:

not applicable

SAPT-Temperature:

SAPT was not determined because the polymerization energy is ≤ 300 J/g.

Evaporation rate:

The product is a non-volatile solid.

SECTION 10: Stability and Reactivity

10.1. Reactivity

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

Corrosion to metals: Corrosive effects to metal are not anticipated.

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

Ignitable air mixtures can form when the product is heated above the flash point and/or when sprayed or atomized.

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.

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

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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.

10.5. Incompatible materials

Substances to avoid:

radical formers, free radical initiators, peroxides, oxidizing agents, reducing agents, strong bases, strong acids

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:

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

Experimental/calculated data:

LD50 rat (oral): > 2.000 mg/kg (OECD Guideline 423)

No mortality was observed.

(by inhalation): No data available.

LD50 rat (dermal): > 5.000 mg/kg (OECD Guideline 402)

Irritation

Assessment of irritating effects:

Not irritating to eyes and skin. The European Union (EU) has classified the substance as "irritating to skin and eyes".

Experimental/calculated data:

Skin corrosion/irritation

In vitro assay: non-irritant (OECD Guideline 439)

Serious eye damage/irritation

In vitro assay: non-irritant (OECD Guideline 492)

Respiratory/Skin sensitization

Assessment of sensitization:

No sensitizing effect.

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Experimental/calculated data:

In vitro assay: Non-sensitizing. (In vitro skin sensitization test battery)

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.

Carcinogenicity

Assessment of carcinogenicity:

The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The results were determined in a Screening test (OECD 421/422).

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

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

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

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals.

Aspiration hazard

not applicable

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

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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:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

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

Toxic to aquatic organisms based on long-term (chronic) toxicity study data.

EU-classification

Toxicity to fish:

LL50 (96 h) > 100 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)

Aquatic invertebrates:

EL50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EL50 (72 h) > 100 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)

Microorganisms/Effect on activated sludge:

EC50 (3 h) > 1.000 mg/l, activated sludge, domestic (OECD Guideline 209, static)

Chronic toxicity to fish:

No observed effect concentration (30 d) 1 µg/L, *Brachydanio rerio* (OECD Guideline 210, Flow through.)

Limit concentration test only (LIMIT test). No toxic effects occur within the range of solubility. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 0,25 µg/L, *Daphnia magna* (OECD Guideline 211, semistatic)

Limit concentration test only (LIMIT test). No toxic effects occur within the range of solubility. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment of terrestrial toxicity:

No data available.

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12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Biodegradable. Under enhanced conditions

Elimination information:

> 60 - 70 % CO₂ formation relative to the theoretical value (60 d) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C) (aerobic, activated sludge, domestic) Biodegradable.

Assessment of stability in water:

No data available.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Does not accumulate in organisms.

Bioaccumulation potential:

Bioconcentration factor(BCF): 7,41 (calculated)

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

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: No data available.

Adsorption in soil: Adsorption to solid soil phase is 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): Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria. Self classification

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

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12.7. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 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 1272/2008, Annex VI, Table 3.1 (EU))

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

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Inland waterway transport

ADN

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	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
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.

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14.3. Transport hazard class(es)

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

14.4. Packing group

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

14.5. Environmental hazards

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

14.6. Special precautions for user

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

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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: 75

Hazardous Incident Ordinance (Germany):

List entry in regulation: 1.3.2

| 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: E2

| Classification applies for standard conditions of temperature and pressure.

Water hazard class (§4 AwSV para.3 (Provisional self-classification of the substance)): (2)
significantly water polluting.

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

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SECTION 16: Other Information

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

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

Aquatic Chronic	Hazardous to the aquatic environment - chronic
STOT SE	Specific target organ toxicity — single exposure
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Corr./Irrit.	Skin corrosion/irritation
Skin Irrit.	Skin irritation
Eye Irrit.	Eye irritation
Skin Sens.	Skin sensitization
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.

Abbreviations

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

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

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Annex: Exposure Scenarios

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1. Formulation, (use in industrial settings)

F; SU12; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9

2. Use as an intermediate, (use in industrial settings)

IS; SU12, SU9; ERC6a; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9

3. Use in the production of compounds, (use in industrial settings)

IS; SU9, SU12; ERC6a; PROC5, PROC7, PROC9, PROC19

4. Polymer production, (use in industrial settings)

IS; SU12; ERC6c; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9

5. Use as laboratory reagent/agent, (use in industrial settings)

IS; ERC6c; PROC15

1. Short title of exposure scenario

Formulation, (use in industrial settings)

F; SU12; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation into mixture As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0069 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000049
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1469 mg/m ³
Risk Characterization Ratio (RCR)	0,0015
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and	

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direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001975
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	

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Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000987
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,009873
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³

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Risk Characterization Ratio (RCR)	0,015005
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,019747
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
Guidance to Downstream Users	
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Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	

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Concentration of the substance	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,019747
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,4407 mg/m ³
Risk Characterization Ratio (RCR)	0,004501
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,019747
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash	

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off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,009873
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

2. Short title of exposure scenario

Use as an intermediate, (use in industrial settings)

IS; SU12, SU9; ERC6a; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Use of intermediate As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0069 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000049
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1469 mg/m ³
Risk Characterization Ratio (RCR)	0,0015
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and	

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direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001975
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	

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Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000987
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,019747

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Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,4407 mg/m ³
Risk Characterization Ratio (RCR)	0,004501
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,019747
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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

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	containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,009873
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

3. Short title of exposure scenario

Use in the production of compounds, (use in industrial settings)
IS; SU9, SU12; ERC6a; PROC5, PROC7, PROC9, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Use of intermediate

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	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	
Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,019747
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
Guidance to Downstream Users	
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Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial

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Operational conditions	
Concentration of the substance	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	8,5714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,061709
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,64 mg/m ³
Risk Characterization Ratio (RCR)	0,006537
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,009873
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash	

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off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	28,2857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,203641
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	44,0687 mg/m ³
Risk Characterization Ratio (RCR)	0,45014
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

4. Short title of exposure scenario

Polymer production, (use in industrial settings)

IS; 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) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0,0001 Pa

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during use	
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0069 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000049
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1469 mg/m ³
Risk Characterization Ratio (RCR)	0,0015
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %

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Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001975
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective	

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equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000987
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,009873
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic

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Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,019747
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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

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Operational conditions	
Concentration of the substance	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,019747
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,4407 mg/m ³
Risk Characterization Ratio (RCR)	0,004501
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance	0,0001 Pa

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Date / Revised: 14.05.2025

Version: 5.0

Date / Previous version: 20.09.2023

Previous version: 4.0

Product: **Behenyl Acrylate 1822 F (BEA 1822 F)**

(ID no. 30530447/SDS_GEN_DE/EN)

Date of print 07.07.2025

during use	
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,019747
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
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	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and	

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direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,009873
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

5. Short title of exposure scenario

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

IS; ERC6c; PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6c: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	
Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of Docosyl acrylate and Octadecyl acrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,0001 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid skin contact. Avoid frequent and direct contact with substance. Wash off any skin contamination immediately. Avoid contact with contaminated tools. Clean up contamination as soon as they occur.	
Wear suitable personal protective equipment.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000494
Assessment method	EASY TRA v6.1, ECETOC TRA v3.1, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,469 mg/m ³
Risk Characterization Ratio (RCR)	0,015005
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	
