



Revision Number: 001.1

Issue date: 05/14/2025

1. IDENTIFICATION

Product name: LOCTITE HY 4070 A**Product type/** Adhesive**Recommended use:****Restriction of Use:** None identified**Company address:**Henkel Canada Corporation
Meadowpine Boulevard 2515
Mississauga, Ontario L5N 6C3**IDH number:** 2217629**Item number:** 2264448_2127062**Region:** Canada**Contact information:**

Telephone: +1 (905) 814-6511

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC

1-800-424-9300 (toll free) or 1-703-527-3887

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC

1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: BONDS SKIN IN SECONDS.
H227 COMBUSTIBLE LIQUID.
H320 CAUSES EYE IRRITATION.
H335 MAY CAUSE RESPIRATORY IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
EYE IRRITATION	2B
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Precautionary Statements

Prevention:

P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.

P261 - Avoid breathing mist/vapours.

P264 - Wash affected area thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, clothing, eye and face protection.

Response:

P304+P340+P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

P337+P313 - If eye irritation persists: Get medical attention.

P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

Storage:

P405 - Store locked up.

IDH number: 2217629

Product name: LOCTITE HY 4070 A

Disposal: P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

Classification complies with Canadian Hazardous Products Regulations and is consistent with the provision of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*
Ethyl 2-cyanoacrylate	7085-85-0	80 - 100
Ethylene/methyl acrylate copolymer~		5 - 10

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation:	Move to fresh air. If symptoms persist, seek medical advice. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel.
Skin contact:	Rinse with running water and soap. Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water. If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. If symptoms develop and persist, get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention immediately. Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage.
Ingestion:	Seek immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person. Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.
Most important symptoms and effects (acute and delayed):	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
Indication of any immediate medical attention / special treatment needed:	Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Use extinguishing measures appropriate to local circumstances and the surrounding environment. Water spray (fog), foam, dry chemical or carbon dioxide.
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Improper extinguishing agents:	Not available.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Keep unnecessary personnel away. In case of fire, keep containers cool with water spray.
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Toxic fumes. Irritating vapors. Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways. Prevent further leakage or spillage if safe to do so.
Clean-up methods:	Ensure adequate ventilation. Wear appropriate personal protective equipment. Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Cured material can be disposed of as non-hazardous waste.

7. HANDLING AND STORAGE

Handling:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns. When using, do not eat, drink or smoke.
Storage:	Not available.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	1 ppm STEL 0.2 ppm TWA (Respiratory sensitization) (Dermal sensitization)	None	None	None
Siloxanes and Silicones, di-Me, reaction products with silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None

Engineering controls:	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Eye/face protection:	Wear safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton. The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Colourless / Colorless to light yellow
Odor:	Characteristic
Odor threshold:	Not available.
pH:	Not applicable, Product reacts with water.
Vapor pressure:	< 700 mbar (20 °C (68°F))
Boiling point/range:	149 °C (300.2 °F)None
Melting point/ range:	Not applicable, Product is a liquid
Density/Relative density:	Not available.
Relative vapor density:	> 1 20 °C
Flash point:	80 - 93 °C (176°F - 199.4 °F) None
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	The product is not flammable.
Evaporation rate:	Not available.
Solubility:	Polymerises in presence of water. Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	< 3 %
Dynamic viscosity:	>= 2,000.0 mPa.s
Kinematic viscosity:	> 20.5 mm2/s
Particle characteristics:	Not applicable, Product is a liquid
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Hazardous reactions:	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
Hazardous decomposition products:	None
Incompatible materials:	Water. Alcohols. Amines. Bases.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight. Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation. Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.
Skin contact:	Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin.
Eye contact:	Irritating to eyes. Causes excessive tearing. Eyelids may bond.
Ingestion:	Not expected under normal conditions of use. Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

Hazardous Component(s)	LD50s and LC50s
Ethyl 2-cyanoacrylate	None
Ethylene/methyl acrylate copolymer~	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Ethyl 2-cyanoacrylate	Irritant	Allergen	Respiratory
Ethylene/methyl acrylate copolymer~			

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Ethylene/methyl acrylate copolymer~	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Recommended method of disposal: Not available.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

Canada Transportation of Dangerous Goods - Ground

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

International Air Transportation (ICAO/IATA)

Proper shipping name:	Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)
Hazard class or division:	9
Identification number:	UN 3334
Packing group:	III
Exceptions:	Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Product Safety and Regulatory Affairs

Issue date: 05/14/2025

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Revision Number: 002.0

Issue date: 05/14/2025

1. IDENTIFICATION

Product name: LOCTITE HY 4070 B**Product type/** Adhesive**Recommended use:****Restriction of Use:** None identified**Company address:**Henkel Canada Corporation
Meadowpine Boulevard 2515
Mississauga, Ontario L5N 6C3**IDH number:** 2217628**Item number:** 2264448_2127020**Region:** Canada**Contact information:**

Telephone: +1 (905) 814-6511

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MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC

1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: H315 - CAUSES SKIN IRRITATION.
 H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
 H319 - CAUSES SERIOUS EYE IRRITATION.
 H334 - MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
 H335 - MAY CAUSE RESPIRATORY IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Precautionary Statements

Prevention:

P261 - Avoid breathing mist/vapours.
 P264 - Wash affected area thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves, eye protection, and face protection.
 P284 - [In case of inadequate ventilation] wear respiratory protection.

Response:

P302+P352 - IF ON SKIN: Wash with plenty of water.
 P304+P340+P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position

IDH number: 2217628

Product name: LOCTITE HY 4070 B

Storage:**Disposal:**

comfortable for breathing. 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.
P333+P313 - If skin irritation or rash occurs: Get medical attention.
P337+P313 - If eye irritation persists: Get medical attention.
P342+P311 - If experiencing respiratory symptoms: Call a poison center or physician.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

Classification complies with Canadian Hazardous Products Regulations and is consistent with the provision of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*
1,6-hexanediyl bismethacrylate	6606-59-3	80 - 100
Methyl methacrylate	80-62-6	0.1 - 1
3,4,5,6-tetrahydrophthalic anhydride	2426-02-0	0.1 - 1

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation:	If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:	Rinse with running water and soap. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Discard any shoes or clothing items that cannot be decontaminated. If symptoms develop and persist, get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention immediately.
Ingestion:	Seek immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Most important symptoms and effects (acute and delayed):	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
Indication of any immediate medical attention / special treatment needed:	Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Improper extinguishing agents:	Not available.

Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. Keep unnecessary personnel away.
Unusual fire or explosion hazards:	Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.
Hazardous combustion products:	Oxides of carbon. Toxic fumes. Irritating vapors.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways. Prevent further leakage or spillage if safe to do so.
Clean-up methods:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal. Ensure adequate ventilation. Wear appropriate personal protective equipment.

7. HANDLING AND STORAGE

Handling:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. See Section 8 of the SDS for Personal Protective Equipment.
Storage:	Protect from direct sunlight. Keep away from heat, spark and flame.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Methyl methacrylate	50 ppm TWA 100 ppm STEL (Dermal sensitization)	100 ppm (410 mg/m ³) PEL	None	50 ppm

Engineering controls:	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Eye/face protection:	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.
Skin protection:	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Colourless / Colorless to yellow
Odor:	Characteristic
Odor threshold:	Not available.
pH:	7 Not applicable

pH:	Product is non-soluble (in water)., Not applicable
Vapor pressure:	< 0.02 mm hg (20 °C (68°F))
Boiling point/range:	> 315 °C (> 599°F)
Melting point/ range:	Not applicable, Product is a liquid
Density/Relative density:	0.98 - 1.1
Relative vapor density:	> 1 20 °C
Flash point:	> 150 °C (> 302°F) no method / method unknown
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	The product is not flammable.
Evaporation rate:	Not available.
Solubility:	Insoluble Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	< 3 %
Dynamic viscosity:	1.0 - 30.0 mPa.s
Kinematic viscosity:	> 20.5 mm2/s
Particle characteristics:	Not applicable, Product is a liquid
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Toxic fumes. Irritating vapors.
Incompatible materials:	Strong reducing agents. Free radical initiators. Inert gases. Oxygen scavengers. Strong oxidizing agents. Amines, strong alkalies Reactive metals. Peroxides.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight. UV light.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact: Causes skin irritation. May cause allergic skin reaction.
Eye contact: Causes serious eye irritation.
Ingestion: May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s
1,6-hexanediyl bismethacrylate	None
Methyl methacrylate	Oral LD50 (Rat) = 7,800 mg/kg Oral LD50 (Rabbit) = 6,000 mg/kg Oral LD50 (Rat) = 9,400 mg/kg
3,4,5,6-tetrahydrophthalic anhydride	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
1,6-hexanediyl bismethacrylate	Irritant	Allergen	Respiratory
Methyl methacrylate	Irritant	Allergen	Kidney Liver Mutagen Nervous System Respiratory
3,4,5,6-tetrahydrophthalic anhydride			

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
1,6-hexanediyl bismethacrylate	No	No	No
Methyl methacrylate	No	No	No
3,4,5,6-tetrahydrophthalic anhydride	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

Canada Transportation of Dangerous Goods - Ground

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Product Safety and Regulatory Affairs

Issue date: 05/14/2025

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Annex to the extended Safety Data Sheet (eSDS)

Version:2.0

Annex for ethyl 2-cyanoacrylate

Content

Exposure Scenario 1)	Adhesives and sealants industrial use Manufacture of substance
Exposure Scenario 2)	Adhesives and sealants industrial use Formulation & (re)packing of substances and mixtures
Exposure Scenario 3)	Adhesives and sealants industrial use Industrial application of coatings and inks
Exposure Scenario 4)	Adhesives and sealants professional use Professional use
Exposure Scenario 5)	Adhesives and sealants consumer use

Exposure Scenario I.

Adhesives and sealants industrial use, Manufacture of substance

I .1 List of use descriptors

Sector(s) of use	SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Product categories [PC]:	not relevant.
Name of contributing environmental scenario and corresponding ERC:	ERC1: Manufacture of the substance
List of names of contributing worker scenarios and corresponding PROCs:	PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

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I.2.1 Contributing exposure scenario controlling environmental exposure

Environmental Release Categories [ERC]:	ERC1: Manufacture of the substance
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
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Physical state	not relevant
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Amounts used

This information is not available.

Frequency and duration of use

Batch process:	not relevant
Continuous process:	not relevant

Environment factors not influenced by risk management

Flow rate of receiving surface water (m ³ /d):	18.000
Local freshwater dilution factor	10
Local marine water dilution factor	100

Other given operational conditions affecting environmental exposure

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	No specific measures identified., Air emission will be precipitated through air humidity.
Soil	No specific measures identified.
Water	No specific measures identified., Due to the precipitation in water, no soluble parts will occur.
Sediment:	-
Remarks:	No data available Testing technically not feasible. In presence of moisture, ethyl 2-cyanoacrylate polymerizes within seconds.

I.2.2 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC1: Use in closed process, no likelihood of exposure
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC1, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC1, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC1, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC1, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC1, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC1, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC1, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC1, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.3 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC2: Use in closed, continuous process with occasional controlled exposure
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC2, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC2, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC2, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC2, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC2, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC2, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC2, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC2, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.4 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC3: Use in closed batch process (synthesis or formulation)
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC3, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC3, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.5 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet
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Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC4, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC4, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.6 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC5: Mixing or blending in batch processes
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.7 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet
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Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.8 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet
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Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.3 Exposure estimation

Environment:

Adhesives and sealants industrial use, Manufacture of substance:

none

Health:

Adhesives and sealants industrial use, Manufacture of substance:

PROC1: Use in closed process, no likelihood of exposure:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,000034	ECETOC TRA	< 15 min
Inhalation, systemic, long term	0,0052 mg/m ³	0,000595	ECETOC TRA	< 15 min

Dermal, systemic, long term	0,0343 mg/kg bw/day	0,000034	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	0,0104 mg/m ³	0,00119	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,000034	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,0313 mg/m ³	0,003571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,000034	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,0052 mg/m ³	0,000595	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:
PROC2: Use in closed, continuous process with occasional controlled exposure:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	1,371 mg/kg bw/day	0,001371	ECETOC TRA	< 15 min
Inhalation, systemic, long term	0,5208 mg/m ³	0,059524	ECETOC TRA	< 15 min
Dermal, systemic, long term	1,371 mg/kg bw/day	0,001371	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	1,042 mg/m ³	0,119048	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	1,371 mg/kg bw/day	0,001371	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,3125 mg/m ³	0,035714	ECETOC TRA	< 4 hours
Dermal, systemic, long term	1,371 mg/kg bw/day	0,001371	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,0521 mg/m ³	0,005952	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:
PROC3: Use in closed batch process (synthesis or formulation):

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	< 15 min
Inhalation, systemic, long term	1,563 mg/m ³	0,178571	ECETOC TRA	< 15 min
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	3,125 mg/m ³	0,357143	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,9375 mg/m ³	0,107143	ECETOC TRA	< 4 hours
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,1563 mg/m ³	0,017857	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:
PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 15 min

Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m ³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,2604 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

PROC5: Mixing or blending in batch processes:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m ³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,2604 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,7813 mg/m ³	0,089286	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,1302 mg/m ³	0,014881	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:**PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing):**

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m ³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,260 mg/m ³	0,029762	ECETOC TRA	> 4 hours

I.4 Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

For further information, please also consult the Internet site: Downstream Users
<https://www.echa.europa.eu/web/guest/guidance-documents/guidance-on-reach>

Exposure Scenario II.**Adhesives and sealants industrial use, Formulation & (re)packing of substances and mixtures****II .1 List of use descriptors**

Sector(s) of use	SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Product categories [PC]:	not relevant.
Name of contributing environmental scenario and corresponding ERC:	ERC2: Formulation into mixture (mixtures)
List of names of contributing worker scenarios and corresponding PROCs:	PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

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II.2.1 Contributing exposure scenario controlling environmental exposure

Environmental Release Categories [ERC]:	ERC2: Formulation into mixture (mixtures)
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
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Physical state	not relevant
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Amounts used

This information is not available.

Frequency and duration of use

Batch process:	not relevant
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Continuous process:	not relevant
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Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	18.000
Local freshwater dilution factor	10
Local marine water dilution factor	100

Other given operational conditions affecting environmental exposure

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	No specific measures identified., Air emission will be precipitated through air humidity.
Soil	No specific measures identified.
Water	No specific measures identified., Due to the precipitation in water, no soluble parts will occur.
Sediment:	-
Remarks:	No data available Testing technically not feasible. In presence of moisture, ethyl 2-cyanoacrylate polymerizes within seconds.

II.2.2 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC3: Use in closed batch process (synthesis or formulation)
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC3, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC3, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

II.2.3 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet
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Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC4, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC4, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

II.2.4 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC5: Mixing or blending in batch processes
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

II.2.5 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet
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Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

II.2.6 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet
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Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

II.3 Exposure estimation

Environment:

Adhesives and sealants industrial use, Formulation into mixture (mixtures):

none

Health:

Adhesives and sealants industrial use, Manufacture of substance:

PROC3: Use in closed batch process (synthesis or formulation):

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	< 15 min
Inhalation, systemic, long term	1,563 mg/m ³	0,178571	ECETOC TRA	< 15 min

Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	3,125 mg/m ³	0,357143	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,9375 mg/m ³	0,107143	ECETOC TRA	< 4 hours
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,1563 mg/m ³	0,017857	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:
PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m ³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,2604 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:
PROC5: Mixing or blending in batch processes:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m ³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,2604 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:
PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 15 min

Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,7813 mg/m ³	0,089286	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,1302 mg/m ³	0,014881	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing):

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m ³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,260 mg/m ³	0,029762	ECETOC TRA	> 4 hours

II.4 Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

For further information, please also consult the Internet site: Downstream Users
<https://www.echa.europa.eu/web/guest/guidance-documents/guidance-on-reach>

Exposure Scenario III.

Adhesives and sealants industrial use, Industrial application of coatings and inks

III .1 List of use descriptors

Sector(s) of use	SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Product categories [PC]:	not relevant.
Name of contributing environmental scenario and corresponding ERC:	ERC5: Industrial use resulting in inclusion into or onto a matrix

List of names of contributing worker scenarios and corresponding PROCs:	PROC5: Mixing or blending in batch processes PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation
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III.2.1 Contributing exposure scenario controlling environmental exposure

Environmental Release Categories [ERC]:	ERC5: Industrial use resulting in inclusion into or onto a matrix
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
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Physical state	not relevant
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Amounts used

This information is not available.

Frequency and duration of use

Batch process:	not relevant
Continuous process:	not relevant

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	18.000
Local freshwater dilution factor	10
Local marine water dilution factor	100

Other given operational conditions affecting environmental exposure

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	No specific measures identified., Air emission will be precipitated through air humidity.
Soil	No specific measures identified.
Water	No specific measures identified., Due to the precipitation in water, no soluble parts will occur.
Sediment:	-
Remarks:	No data available Testing technically not feasible. In presence of moisture, ethyl 2-cyanoacrylate polymerizes within seconds.

III.2.2 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC5: Mixing or blending in batch processes
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

III.2.3 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid

Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
----------------------------	--------------

Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

III.2.4 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet
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Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

III.2.5 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC10: Roller application or brushing
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC10, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC10, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC10, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC10, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC10, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC10, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC10, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC10, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

III.2.6 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Industrial, PROC14, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC14, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC14, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC14, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Industrial, PROC14, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC14, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC14, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC14, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

III.3 Exposure estimation

Environment:

Adhesives and sealants industrial use:

none

Health:

Adhesives and sealants industrial use, Manufacture of substance:

PROC5: Mixing or blending in batch processes:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min

Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m ³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,2604 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,7813 mg/m ³	0,089286	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,1302 mg/m ³	0,014881	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing):

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m ³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,260 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use:

PROC10: Roller application or brushing:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long	27,429 mg/kg	0,027429	ECETOC TRA	< 15 min

term	bw/day			
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	< 15 min
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	10,417 mg/m ³	1,190	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	3,125 mg/m ³	0,357143	ECETOC TRA	< 4 hours
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,5208 mg/m ³	0,059524	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use:**PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation:**

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	< 15 min
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	< 15 min
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	10.417 mg/m ³	1,190	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	3,125 mg/m ³	0,357143	ECETOC TRA	< 4 hours
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,5208 mg/m ³	0,059524	ECETOC TRA	> 4 hours

III.4 Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

For further information, please also consult the Internet site: Downstream Users
<https://www.echa.europa.eu/web/guest/guidance-documents/guidance-on-reach>

Exposure Scenario IV.**Adhesives and sealants professional use, Professional use****IV .1 List of use descriptors**

Sector(s) of use	SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product categories [PC]:	not relevant.
Name of contributing environmental scenario and corresponding ERC:	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix

	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix
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List of names of contributing worker scenarios and corresponding PROCs:	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC10: Roller application or brushing PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation
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IV.2.1 Contributing exposure scenario controlling environmental exposure

Environmental Release Categories [ERC]:	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
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Physical state	not relevant
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Amounts used

This information is not available.

Frequency and duration of use

Batch process:	not relevant
Continuous process:	not relevant

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	18.000
Local freshwater dilution factor	10
Local marine water dilution factor	100

Other given operational conditions affecting environmental exposure

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	No specific measures identified., Air emission will be precipitated through air humidity.
Soil	No specific measures identified.
Water	No specific measures identified., Due to the precipitation in water, no soluble parts will occur.
Sediment:	-
Remarks:	No data available Testing technically not feasible. In presence of moisture, ethyl 2-cyanoacrylate polymerizes within seconds.

Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
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Physical state	not relevant
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Amounts used

This information is not available.

Frequency and duration of use

Batch process:	not relevant
Continuous process:	not relevant

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	18.000
Local freshwater dilution factor	10
Local marine water dilution factor	100

Other given operational conditions affecting environmental exposure
Risk management measures (RMM)
Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	No specific measures identified., Air emission will be precipitated through air humidity.
Soil	No specific measures identified.
Water	No specific measures identified., Due to the precipitation in water, no soluble parts will occur.
Sediment:	-
Remarks:	No data available Testing technically not feasible. In presence of moisture, ethyl 2-cyanoacrylate polymerizes within seconds.

IV.2.2 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
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Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Professional, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Professional, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

IV.2.3 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC10: Roller application or brushing
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Professional, PROC10, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC10, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC10, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC10, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Professional, PROC10, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC10, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC10, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC10, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

IV.2.4 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation
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Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
----------------------------	--------------

Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)**Technical conditions and measures at process level (source) to prevent release**

See chapter 7 of the safety data sheet
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Technical conditions and measures to control dispersion from source towards the worker

Professional, PROC14, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC14, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC14, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC14, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Professional, PROC14, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC14, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC14, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC14, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

IV.3 Exposure estimation

Environment:

Adhesives and sealants professional use:

none

Adhesives and sealants professional use:

none

Health:**Adhesives and sealants professional use, Professional use:****PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities:**

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 15 min
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	10,417 mg/m ³	1,190	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	3,125 mg/m ³	0,357143	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,5208 mg/m ³	0,059524	ECETOC TRA	> 4 hours

Adhesives and sealants professional use, Professional use:**PROC10: Roller application or brushing:**

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	< 15 min
Inhalation, systemic, long term	13,021 mg/m ³	1,488	ECETOC TRA	< 15 min
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	26,042 mg/m ³	2,976	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	15,625 mg/m ³	1,786	ECETOC TRA	< 4 hours
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	1,9 mg/m ³	0,21	ART	1 hour Without local exhaust ventilation
Inhalation, systemic, long term	3,9 mg/m ³	0,42	ART	4 hours with local exhaust ventilation

Adhesives and sealants professional use, Professional use:**PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation:**

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	< 15 min
Inhalation, systemic, long term	13,021 mg/m ³	1,488	ECETOC TRA	< 15 min
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	26,042 mg/m ³	2,976	ECETOC TRA	15 min - 1 hour

Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	15,625 mg/m ³	1,786	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,9 mg/m ³	0,21	ART	1 hour Without local exhaust ventilation
Inhalation, systemic, long term	3,9 mg/m ³	0,42	ART	4 hours with local exhaust ventilation
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	> 4 hours

IV.4 Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

For further information, please also consult the Internet site: Downstream Users
<https://www.echa.europa.eu/web/guest/guidance-documents/guidance-on-reach>

Exposure Scenario VI.

Adhesives and sealants consumer use

V .1 List of use descriptors

Sector(s) of use	SU21: Consumer uses: Private households (= general public = consumers)
Product categories [PC]:	PC1: Adhesives, sealants
Name of contributing environmental scenario and corresponding ERC:	<u>Adhesives and sealants consumer use:</u> ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix
List of names of contributing consumer scenarios and corresponding PC:	<u>Adhesives and sealants consumer use:</u> PC1: Adhesives, sealants

V.2.1 Contributing exposure scenario controlling environmental exposure

Environmental Release Categories [ERC]:	<u>Adhesives and sealants consumer use:</u> ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix
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V.3 Exposure estimation and reference to its source

Environment:

Adhesives and sealants consumer use:

none

Adhesives and sealants consumer use:

none

Health:

V.4 Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

For further information, please also consult the Internet site: Downstream Users
<https://www.echa.europa.eu/web/guest/guidance-documents/guidance-on-reach>