



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.11.2015

Version number 2

Revision: 17.11.2015

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

- **1.1 Product identifier**
- Trade name **CONTI SECUR BFA**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** Adhesives
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
H.B. Fuller, Isar-Rakoll, S.A.
Estrada Nacional 13
PT-4486-851 Mindelo - Vila do Conde
+351 229 288 200
EU-MSDS@hbfuller.com
- **Informing department:** Regulatory department
- **1.4 Emergency telephone number:**
+49 5551 702 8418 (only available during working hours)
+44 (0) 1235 239 670 (24 hours)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**
ethyl acetate
cyclohexane
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains Rosin. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

• **Description:** Adhesive.

Dangerous components:

CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-0000	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 110-82-7 EINECS: 203-806-2 Reg.nr.: 01-2119486291-36-0000	cyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-0000	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	5-10%
CAS: 31394-54-4 EINECS: 250-610-8	isoheptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	< 5%
EC number: 931-254-9 Reg.nr.: 01-2119484651-34-0000	HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	< 5%
CAS: 110-54-3 EINECS: 203-777-6	n-hexane Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	< 2.5%
CAS: 8052-10-6 EINECS: 232-484-6	Rosin Skin Sens. 1, H317	0.5-1%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.5-1%

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**
Instantly remove any clothing soiled by the product.
Take affected persons into the open air.
- **After inhalation**
In case of unconsciousness bring patient into stable side position for transport.
Supply fresh air.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes (15 min) under running water. Then consult doctor.
- **After swallowing** Do not induce vomiting; instantly call for medical help.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Water haze
Foam
Fire-extinguishing powder
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Use breathing protection against the effects of fumes/dust/aerosol.
Wear protective clothing.
- **6.2 Environmental precautions:**
Prevent material from reaching sewage system, holes and cellars.
Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Send for recovery or disposal in suitable containers.

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Use non sparking handtools.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders)

- **6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.
Ensure that suitable extractors are available on processing machines
Take note of emission threshold.
Use solvent-proof equipment.
Keep away from children
Avoid release to the environment.
Keep eye wash bottles available on working place.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
Highly volatile, flammable constituents are released during processing.
Fumes can combine with air to form an explosive mixture.
Flammable mixtures may be formed in empty containers.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and containers:**

Store in cool location.
Keep dark, cool and dry.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**

Please take care on national and local requirements.

- **8.1 Control parameters**

- **Components with critical values that require monitoring at the workplace:**

141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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110-82-7 cyclohexane

WEL	Short-term value: 1050 mg/m ³ , 300 ppm Long-term value: 350 mg/m ³ , 100 ppm
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67-64-1 acetone

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
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142-82-5 heptane

WEL	Long-term value: 500 ppm
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• DNELs

ETHYL ACETATE (CAS 141-78-6):

Human exposure:

DNEL: 1468 mg/m³ (acute systemic effects; inhalation; workers)

DNEL: 1468 mg/m³ (acute local effects; inhalation; workers)

DNEL: 734 mg/m³ (long-term systemic effects; inhalation; workers)

DNEL: 734 mg/m³ (long-term local effects; inhalation; workers)

DNEL: 63 mg/kg body weight/day (long-term systemic effects; dermal; workers)

DNEL: 734 mg/m³ (acute systemic effects; inhalation; general population)

DNEL: 734 mg/m³ (acute local effects; inhalation; general population)

DNEL: 367 mg/m³ (long-term systemic effects; inhalation; general population)

DNEL: 4,5 mg/kg body weight/day (long-term systemic effects; oral; general population)

DNEL: 367 mg/m³ (long-term local effects; inhalation; general population)

DNEL: 37 mg/kg body weight/day (long-term systemic effects; dermal; general population)

CYCLOALKANE (CAS 110-82-7):

(Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan)

Arbeiter

Dermal

13964 mg/kg bw/day DNEL, Chronisch Exposition, Systemisch Effekte

Inhalierung

5306 mg/m³ DNEL, Chronisch Exposition, Systemisch Effekte

ACETONE (CAS 64-67-1):

DNEL Long term Dermal 186 mg/kg bw/day Workers -

DNEL Short term Inhalation 2420 mg/m³ Workers -

DNEL Long term Inhalation 1210 mg/m³ Workers -

DNEL Long term Oral 62 mg/kg bw/day Consumers -

DNEL Long term Dermal 62 mg/kg bw/day Consumers -

DNEL Long term Inhalation 200 mg/m³ Consumers

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (CAS 142-82-5):

Oral DNEL 149 mg/kg bw/dia (popul)

Dermal DNEL 149 mg/kg bw/24h (popul)

300 mg/kg bw/24h (workers)

Inhalative DNEL 447 mg/m³ (popul)

2085 mg/m³ (workers)

• PNECs

ETHYL ACETATE (CAS 141-78-6):

Environment:

PNEC (freshwater): 0.26 mg/L (based on the lowest chronic toxicity value NOEC = 2.6 mg/L for invertebrates and assessment factor 10).

PNEC (saltwater): 0.026 mg/L (based on the lowest chronic toxicity value NOEC = 2.6 mg/L for invertebrates and assessment factor 100).

PNEC (intermittent releases): 1.65 mg/L (based on the lowest aquatic toxicity value EC50 = 165 mg/L for invertebrates and assessment factor 100).

PNEC (sediment, freshwater): 1.25 mg/kg dry weight (based on partition coefficient method).

PNEC (sediment, saltwater): 0.125 mg/kg dry weight (based on partition coefficient method).

PNEC (soil): 0.24 mg/kg dry weight (based on partition coefficient method).

PNEC (sewage treatment plant): 650 mg/L (based on the lowest effect concentration for micro-organisms EC10 = 650 mg/L and assessment factor 1).

CYCLOALKANE (CAS 110-82-7):

(Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan)

NA

ACETONE (CAS 67-64-1):

PNEC Marine 1,06 mg/l -

PNEC Fresh water 10,6 mg/l -

PNEC Fresh water sediment 30,4 mg/l -

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PNEC Marine water sediment 3,04 mg/l -

PNEC Soil 0,112 mg/l -

PNEC Sewage Treatment Plant 29,5 mg/l -

HYDROCARBONS C7 n-alkanes, isoalkanes, cyclics (CAS 142-82-5):

PNECs

Substance is a hydrocarbon with a complex, unknown or variable composition. Conventional methods of deriving PNECs are not appropriate and it is not possible to identify a single representative PNEC for such substances.

Limitation and supervision of exposure into the environment

Handle and store according to regulations and applicable good practices.

Dispose according to the legislation in force.

- **Additional information:** Based on information valid at the time of writing.

- **8.2 Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

Keep away from food, drink and animal feedingstuffs.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Not necessary if room is well-ventilated.

Ensure that suitable extractors are available on processing machines

- **Recommended filter device for short term use:** Filter AX

- **Protection of hands:**

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves:** Butyl rubber, BR

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed safety glasses.

- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Liquid
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Colour:	According to product specification
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- **Smell:** Characteristic

- **Change in condition**

Boiling point/Boiling range:	56 °C
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- **Flash point:** -25 °C

- **Danger of explosion:** Product is not explosive. However, formation of explosive vapour/air mixtures is possible.

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- | | |
|---|--|
| · Critical values for explosion: | |
| Lower: | 1.2 Vol % |
| Upper: | 11.5 Vol % |
| · Vapour pressure at 20 °C: | 104 hPa |
| · Density at 20 °C | 0.86 g/cm ³ |
| · Viscosity: | |
| dynamic at 20 °C: | 1600 mPas |
| · Solvent content: | |
| Organic solvents: | 81.4 % |
| Solids content: | 18.6 % |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

110-82-7 cyclohexane

Oral | LD50 | 12705 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
Danger to drinking water if even small quantities leak into soil.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Hand over to disposers of hazardous waste.
Incineration under approved, controlled conditions using incinerators suitable or designed for the disposal of hazardous chemical wastes, is the preferred method for disposal.

- **European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|--|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN1133 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA | 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS
ADHESIVES (CYCLOHEXANE, hexane, mixture of isomers (containing less than 5 % n-hexane EEC No 203-777-6)), MARINE POLLUTANT
ADHESIVES |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class · Label | 3 Flammable liquids.
3 |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | II |

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· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: cyclohexane, heptane
· Marine pollutant:	Yes
· Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Kemler Number:	33
· EMS Number:	F-E,S-D
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	Suitable UN approved container necessary.
· IATA	
· Remarks:	Suitable UN approved container necessary.
· UN "Model Regulation":	UN 1133 ADHESIVES, 3, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Other regulations, limitations and prohibitive regulations**
- **VOC (EU) in %:** 77.80 %
- **VOC (EU) in g/l:** 669.1 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The information provided about the product on this Safety Sheet has been compiled from knowledge of the individual constituent.

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The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H361f Suspected of damaging fertility.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.

- **Department issuing data sheet:** Regulatory department

- **Contact:** EU-MSDS@hbfuller.com

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids, Hazard Category 2
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 Repr. 2: Reproductive toxicity, Hazard Category 2
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

- *** Data compared to the previous version altered.**

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Annex: Exposure scenario 1

ethyl acetate

- **Short title of the exposure scenario** Use in coatings and adhesives (industrial)
- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category** PC1 Adhesives, sealants
- **Process category**
 - PROC1 Use in closed process, no likelihood of exposure
 - PROC2 Use in closed, continuous process with occasional controlled exposure
 - PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
 - PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
 - PROC3 Use in closed batch process (synthesis or formulation)
 - PROC7 Industrial spraying
 - PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 - PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 - PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
 - PROC10 Roller application or brushing
 - PROC13 Treatment of articles by dipping and pouring
 - PROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisation
 - PROC15 Use as laboratory reagent
- **Environmental release category**
 - ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use** Use at not higher than 20 °C above the ambient temperature is assumed
- **Duration and frequency**
 - 8hrs (full working shift).
 - 5 workdays/week.
- **Environment** Flow rate of receiving surface water: > 18000m³/d
- **Physical parameters**
- **Physical state** Liquid
- **Concentration of the substance in the mixture** The substance is main component.
- **Used amount per time or activity** 5500 tons per year
- **Other operational conditions** Protect against electrostatic charges.
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**
 - Avoid contact with eyes.
 - Take precautionary measures against static discharge.
 - Keep away from sources of ignition - No smoking.
- **Risk management measures** Ensure that suitable extractors are available on processing machines
- **Worker protection**
 - Ensure adequate ventilation
 - Do not inhale gases / fumes / aerosols.
- **Organisational protective measures** Keep good industrial hygiene.
- **Technical protective measures**
 - efficiency of local exhaust ventilation (LEV): 95%
 - Ensure sufficient ventilation at working area (1-3 times air exchange per hour).
 - Provide explosion-proof electrical equipment.
 - Keep containers tightly sealed.

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Ensure that suitable extractors are available on processing machines

· Personal protective measures

Wear protective clothing.

Safety glasses

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Tightly sealed safety glasses.

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Use breathing protection in case of insufficient ventilation.

Wear suitable protective gloves and protective goggles /face protection during work.

· Environmental protection measures

· **Air** Avoid emissions to the air

· Water

Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of (%):87

Do not allow to reach sewage system.

· **Disposal measures** Disposal must be made according to official regulations.

· Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Waste type** Partially emptied and uncleaned packaging

· Exposure estimation

· **Worker (dermal)** The calculated value is smaller than the DNEL.

· **Worker (inhalation)** The calculated value is smaller than the DNEL.

· **Environment** The calculated value is smaller than the PNEC.

· **Consumer** Not relevant for this Exposure Scenario.

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Annex: Exposure scenario 2

cyclohexane

- **Short title of the exposure scenario**

Cycloalkanes

Use in coatings and adhesives (industrial)

- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Product category** PC1 Adhesives, sealants

- **Process category**

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 for formulation of preparations and articles (multistage and/or significant contact)

PROC7 Industrial spraying

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

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

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

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

PROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisation

PROC15 Use as laboratory reagent

- **Environmental release category**

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

- **Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

- **Conditions of use**

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semibulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

Assumes a good basic standard of occupational hygiene is implemented

- **Duration and frequency**

5 workdays/week.

8hrs (full working shift).

- **Physical parameters**

- **Physical state** Fluid

- **Concentration of the substance in the mixture** The substance is main component.

- **Used amount per time or activity** 970 tons per year

- **Other operational conditions** Observe the normal safety regulations when handling chemicals

- **Other operational conditions affecting environmental exposure** Use only on hard ground.

- **Other operational conditions affecting worker exposure**

Avoid contact with the skin.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Avoid exposure - obtain special instructions before use.

- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.

- **Other operational conditions affecting consumer exposure during the use of the product**

Not applicable.

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- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures**
Provide explosion-proof electrical equipment.
Use product only in enclosed systems.
Ensure that suitable extractors are available on processing machines
- **Personal protective measures**
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Solvent resistant gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Measures for consumer protection**
Ensure adequate labelling.
Keep locked up and out of the reach of children.
- **Environmental protection measures**
- **Air** Exhaust air is introduced into the incinerator.
- **Water**
Do not allow to reach sewage system.
Ensure that all wastewater is collected and treated in a wastewater treatment plant.
Bedingungen und Maßnahmen bezüglich kommunaler Kläranlagen
Mutmaßliche Abwasserrate aus Hauskläranlagen ist:[STP5] 2000 m3/Tag
Geschätzte Stoffentfernung aus dem Abwasser durch Hauskläranlage ist: 96 %
Nicht anwendbar, da kein Austritt in Abwasser erfolgt.
Die maximal zulässige Tonnage des Standorts (MSafe) basierend auf Freisetzung von Abwasser aus einer Hauskläranlage ist: 140000 kg / Tag
Gesamtwirkung der Abwasserbeseitigung nach Vor-Ort- und Fremd- (Inland Kläranlage) RMM ist: 96 %
Bedingungen und Maßnahmen zur externen Aufbereitung von Entsorgungsabfall
Externe Behandlung und Entsorgung von Abfall unter Berücksichtigung der einschlägigen lokalen und/oder nationalen Vorschriften [ETW3].
Bedingungen und Maßnahmen zur externen Abfallverwertung
Externe Aufnahme und Wiederverwendung von Abfall unter Berücksichtigung der einschlägigen lokalen und/oder nationalen Vorschriften [ERW1]
- **Soil** Prevent contamination of soil.
- **Disposal measures**
Liquid product must not be disposed of with household waste. Do not allow to reach sewers / water or soil.
Disposal must be made according to official regulations.
- **Disposal procedures**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Product residues are incinerated as special waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Worker (dermal)** The calculated value is smaller than the DNEL.
- **Worker (inhalation)** The calculated value is smaller than the DNEL.
- **Environment** The calculated value is smaller than the PNEC.
- **Consumer** Not relevant for this Exposure Scenario.

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· Guidance for downstream users

A downstream user may evaluate whether he operates within the conditions set in the exposure scenario by using the information provided in sections above. This evaluation may be based on an expert judgement or on the utilisation of risk assessment tools that are recommended by ECHA.HA.

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Annex: Exposure scenario 3

- **Short title of the exposure scenario**

Acetone

Industrial Applications: Coatings

- **Product category** PC1 Adhesives, sealants

- **Process category**

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 for formulation of preparations and articles (multistage and/or significant contact)

PROC7 Industrial spraying

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

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

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

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

PROC15 Use as laboratory reagent

PROC19 Hand-mixing with intimate contact and only PPE available

- **Environmental release category**

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

- **Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

- **Conditions of use**

- **Duration and frequency** 5 workdays/week.

- **Physical parameters**

- **Physical state** Fluid

- **Concentration of the substance in the mixture** The substance is main component.

- **Used amount per time or activity** 641 annual tons per plant

- **Other operational conditions**

- **Other operational conditions affecting environmental exposure** No special measures required.

- **Other operational conditions affecting worker exposure**

Avoid contact with eyes.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- **Other operational conditions affecting consumer exposure during the use of the product**

Not applicable.

- **Risk management measures**

- **Worker protection** Avoid contact with the skin and eyes.

- **Organisational protective measures** Keep good industrial hygiene.

- **Technical protective measures**

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

- **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Tightly sealed safety glasses.

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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- **Environmental protection measures**
- **Water** No special measures required.
- **Disposal measures**
Ensure that waste is collected and contained.
Disposal must be made according to official regulations.
- **Disposal procedures**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Worker (dermal)** The calculated value is smaller than the DNEL.
- **Worker (inhalation)** The calculated value is smaller than the DNEL.
- **Consumer** Not relevant for this Exposure Scenario.

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Annex: Exposure scenario 4

- **Short title of the exposure scenario**

Heptane (CAS 142-82-5)

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Product category** PC1 Adhesives, sealants

- **Process category**

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 for formulation of preparations and articles (multistage and/or significant contact)

PROC7 Industrial spraying

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

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

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

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

PROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisation

PROC15 Use as laboratory reagent

- **Environmental release category**

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

- **Description of the activities / processes covered in the Exposure Scenario**

Covers the use in coatings (paints, inks, adhesives, etc) within closed or contained systems including incidental exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application activities and film formation) and equipment cleaning, maintenance and associated laboratory activities.

- **Conditions of use**

Use at not higher than 20 °C above the ambient temperature is assumed

Assumes a good basic standard of occupational hygiene is implemented

- **Duration and frequency**

5 workdays/week.

8hrs (full working shift).

- **Worker** Avoid contact with the skin and eyes.

- **Physical parameters**

- **Physical state** Liquid

- **Concentration of the substance in the mixture** The substance is main component.

- **Used amount per time or activity**

400 tons per year

20 tons per day

- **Other operational conditions**

- **Other operational conditions affecting environmental exposure** Use only on hard ground.

- **Other operational conditions affecting worker exposure**

Avoid contact with the skin.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

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- **Risk management measures**
- **Worker protection**
- **Organisational protective measures**
 - Keep good industrial hygiene.
 - Avoid contact with the skin.
 - Do not breathe gas/vapour/aerosol.
- **Technical protective measures**
 - Provide explosion-proof electrical equipment.
 - Use product only in enclosed systems.
 - Ensure that suitable extractors are available on processing machines
- **Personal protective measures**
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the skin.
 - Solvent resistant gloves
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Environmental protection measures**
- **Water** Do not allow to reach sewage system.
- **Soil** Prevent contamination of soil.
- **Disposal measures** Disposal must be made according to official regulations.
- **Disposal procedures**
 - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Worker (dermal)** The calculated value is smaller than the DNEL.
- **Worker (inhalation)** The calculated value is smaller than the DNEL.
- **Environment** The calculated value is smaller than the PNEC.

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