



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.04.2020

Version number 9

Revision: 06.04.2020

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:** +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.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 2 H411 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
HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% n-HEXANE
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

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- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
 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%
EC number: 926-605-8 Reg.nr.: 01-2119486291-36-0000	HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% n-HEXANE Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; 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: 8050-09-7 EINECS: 232-475-7 Reg.nr.: 01-2119480418-32-0000	Rosin Skin Sens. 1, H317	0.5-<1%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.5-<1%

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.

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- **After swallowing**
Do not induce vomiting; instantly call for medical help.
In case of persistent symptoms consult doctor.
- **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**
Use fire fighting measures that suit the environment.
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.
Use non sparking handtools.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders)
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Store in cool, dry place in tightly closed containers.

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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:**

CAS: 141-78-6 ethyl acetate

WEL	Short-term value: 1468 mg/m ³ , 400 ppm
	Long-term value: 734 mg/m ³ , 200 ppm

CAS: 67-64-1 acetone

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

CAS: 8050-09-7 Rosin

WEL	Short-term value: 0.15 mg/m ³
	Long-term value: 0.05 mg/m ³
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• **DNELs**

ETHYL ACETATE (CAS141-78-6):

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)

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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)
 ACETONE (CAS 67-64-1):
 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

• 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).
 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 -
 PNEC Marine water sediment 3,04 mg/l -
 PNEC Soil 0,112 mg/l -
 PNEC Sewage Treatment Plant 29,5 mg/l -

• **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.

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

· Change in condition

Initial boiling point and boiling range: 56 °C

Flash point:	-25 °C
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Explosive properties:	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
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Density at 20 °C	0.86 g/cm ³
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· Solubility in / Miscibility with Water:

Not miscible or difficult to mix

· Viscosity:

dynamic at 20 °C:	1600 mPas
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· Solvent content:

Organic solvents:	81.4 %
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Solids content:	18.6 %
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9.2 Other information	No further relevant information available.
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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** Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

CAS: 141-78-6 ethyl acetate

Oral	LD50	4.935 mg/kg (rbt)
Inhalative	LC50/4 h	22.5 mg/L (rat)

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CAS: 67-64-1 acetone

Oral	LD50	5.800 mg/kg (rat)
Dermal	LD50	20.000 mg/kg (rabbit)
Inhalative	LC50/4 h	76 mg/L (rat)

CAS: 1314-13-2 zinc oxide

Oral	LD50	>5.000 mg/kg (rat)
Dermal	LD50	>5.000 mg/kg (rabbit)
Inhalative	LC50/2h	mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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:

CAS: 1314-13-2 zinc oxide

EC50/72h mg/l (rat)

- **12.2 Persistence and degradability** No further relevant information available.
- **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.

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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 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

- **Uncleaned packagings:** S 60 is only applicable for liquid or unreacted materials.

- **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 (HYDROCARBONS, C6-C7, zinc oxide), 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
<ul style="list-style-type: none"> • 14.5 Environmental hazards: • Marine pollutant: • Special marking (ADR): 	Product contains environmentally hazardous substances: cyclohexane, heptane Yes Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> • 14.6 Special precautions for user • Kemler Number: • EMS Number: • Stowage Category 	Warning: Flammable liquids. 33 F-E,S-D B
<ul style="list-style-type: none"> • 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> • Transport/Additional information: 	
<ul style="list-style-type: none"> • ADR • Limited quantities (LQ) • Excepted quantities (EQ) • Transport category 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 2

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· 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 Suitable UN approved container necessary.
· Remarks:	
· 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**
- Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations
- Other regulations, limitations and prohibitive regulations
- VOC (EU) in %: 81.36 %
- VOC (EU) in g/l: 699.7 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.

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.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.

- **Classification according to Regulation (EC) No 1272/2008**

Skin sensitization calculated on basis of test data

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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· **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 – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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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 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC4 Chemical production where opportunity for exposure arises
 - PROC5 Mixing or blending in batch processes
 - PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
 - PROC7 Industrial spraying
 - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
 - PROC10 Roller application or brushing
 - PROC13 Treatment of articles by dipping and pouring
 - PROC14 Tableting, compression, extrusion, pelletisation, granulation
 - PROC15 Use as laboratory reagent
- **Environmental release category**
 - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- **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

- **Short title of the exposure scenario**

Acetone

Industrial Applications: Coatings

- **Product category** PC1 Adhesives, sealants

- **Process category**

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture 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 Manual activities involving hand contact

- **Environmental release category**

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

- **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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Safety data sheet
according to 1907/2006/EC, Article 31

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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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