

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.03.2019

Version number 203

Revision: 29.05.2018

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

- 1.1 Product identifier

- Trade name Aceton rein

- Article number: 1000450902000

- CAS Number:

67-64-1

- EC number:

200-662-2

- Index number:

606-001-00-8

- REACH-Registration number 01-2119471330-49

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

For details on the identifiable uses according to EC-regulation No. 1907/2006 see annex of this safety data sheet.

- 1.3 Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:**

Stockmeier Chemie GmbH & Co. KG

Am Stadtholz 37

D - 33609 Bielefeld

Tel.: +49/521/3037-0

- **Informing department:**

Product safety department. Tel.: 0049 / 521 / 3037-162, 3037-311 or 3037-328

E-mail: ehs-bielefeld@stockmeier.de

- 1.4 Emergency telephone number:

National Poisons Information Service (NPIS) - Emergency call (healthcare professionals): (+44) 844 892 0111 - 0344 892 0111

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.

- 2.2 Label elements

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

The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

- **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take action to prevent static discharges.

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- 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.
 P403+P235 Store in a well-ventilated place. Keep cool.

- Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- 2.3 Other hazards**- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1 Substances**- CAS No. Designation:**

67-64-1 acetone

- Identification no(s):**- EC number:** 200-662-2**- Index number:** 606-001-00-8

SECTION 4: First aid measures

- 4.1 Description of first aid measures**- General advice:** Instantly remove any clothing soiled by the product.**- After inhalation**

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

- After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

- After eye contact

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

- After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

- 4.2 Most important symptoms and effects, both acute and delayed

Headache

Dazed

Dizziness

Sickness

Unconsciousness

- 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**CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.**- For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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- **5.2 Special hazards arising from the substance or mixture** *Can form explosive gas-air mixtures.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Adjust protective clothing to surrounding fire.*
- **Additional information**
 - Cool endangered containers with water spray jet.*
 - Collect contaminated fire fighting water separately. It must not enter drains.*
 - Temperature class: T 1 (DIN 57165)*
 - Explosion group: II A (DIN 57165)*
 - Fire class: B*

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Wear protective equipment and keep unprotected persons away.*
 - Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks.*
- **6.2 Environmental precautions:**
 - Prevent material from reaching sewage system, holes and cellars.*
 - If large amounts are released, the authorities must be informed.*
 - Damp down gases/fumes/haze with water spray jet.*
- **6.3 Methods and material for containment and cleaning up:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
 - Ensure adequate ventilation.*
 - Dispose of the material collected according to regulations.*
- **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**
 - Ensure good ventilation/exhaustion at the workplace.*
 - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).*
 - Restrict the quantity stored in the work place.*
 - Avoid repeated or long term skin contact.*
 - Prevent formation of aerosols.*
- **Information about protection against explosions and fires:**
 - Fumes can combine with air to form an explosive mixture.*
 - Flammable mixtures may be formed in empty containers.*
 - Keep ignition sources away - Do not smoke.*
 - Protect against electrostatic charges.*
 - Use explosion-proof apparatus / fittings and spark-proof tools.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
 - Observe official regulations on storage and handling of water hazardous substances*
 - Store in cool location.*
 - Suitable material for containers and pipes: Aluminium.*
 - Suitable material for containers and conduit: steel or stainless steel.*

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- Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

Store container in a well ventilated position.

- Storage class 3 (VCI - Konzept, 2007)**- 7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****- Additional information about design of technical systems:**

Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

- 8.1 Control parameters**- Components with critical values that require monitoring at the workplace:****67-64-1 acetone (50-100%)**WEL Short-term value: 3620 mg/m³, 1500 ppmLong-term value: 1210 mg/m³, 500 ppm**- DNELs**

Oral	DNEL (population)	62 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	186 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	62 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	2,420 mg/m ³ (Acute, local effects)
		1,210 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	200 mg/m ³ (Long-term, systemic effects)

- PNECs

PNEC water	10.6 mg/l (freshwater)
	1.06 mg/l (marine water)
PNEC	21 mg/l (intermittent releases)
	100 mg/l (sewage plant)
PNEC sediment	30.4 mg/kg dw (freshwater)
	3.04 mg/kg dw (marine water)
PNEC soil	29.5 mg/kg dw (soil)

- Additional information: The lists that were valid during the compilation were used as basis.**- 8.2 Exposure controls****- Personal protective equipment****- General protective and hygienic measures**

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

Avoid contact with the eyes and skin.

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Do not inhale gases / fumes / aerosols.

Use skin protection cream for preventive skin protection.

- Breathing equipment:

Breathing protection recommended.

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protective equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers.

Where air-filtering respirators are suitable, select an appropriate combination of mask and filter, select a filter suitable for organic gases and vapours (Boiling point >65°C.). Where respiratory protective equipment

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is required, use a full face mask.

Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space use appropriate positive pressure breathing apparatus.

- **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.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Butylrubber, BR, recommended thickness of the material: ≥ 0.5 mm, penetration time: ≥ 240 min.

- **Penetration time of glove material**

Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.

Change gloves if notice sign of disenchantment.

- **For the permanent contact gloves made of the following materials are suitable:** Butyl rubber, BR

- **Not suitable are gloves made of the following materials:**

Strong gloves

Leather gloves

Natural rubber, NR

Chloroprene rubber, CR

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

PVC gloves

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

- **Body protection:** Standard protective working clothes

SECTION 9: Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form: Fluid

Colour: Colourless

- **Smell:** Aromatic

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/freezing point: -94.7 °C

Initial boiling point and boiling range: 55.8-56.6 °C (ASTM D97)

- **Flash point:** -18 °C (IP 170 Abel)

- **Ignition temperature:** 540 °C (ASTM 2155)

- **Decomposition temperature:** Not determined

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- Self-inflammability:	Not determined
- Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- Critical values for explosion:	
Lower:	2.5 Vol %
Upper:	13.0 Vol %
- Vapour pressure at 20 °C:	247 hPa
- Density at 20 °C	0.790-0.792 g/cm ³ (ASTM D 4052)
- Relative density	Not determined
- Vapour density	Not determined.
- Evaporation rate	Not determined
- Solubility in / Miscibility with Water:	Fully miscible
- Partition coefficient: n-octanol/water:	-0.24 log POW
- Viscosity:	
dynamic at 20 °C:	0.33 mPas (ASTM D 445)
kinematic:	Not determined
- 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
 No decomposition if used according to specifications.
 Can be distilled without decomposing at normal pressure
 To avoid: warmth, flames, sparks
- **10.3 Possibility of hazardous reactions**
 Possible formation of peroxide
 Used empty containers may contain product gases which form explosive mixtures with air
 Danger of containers bursting because of high vapour pressure
 Forms explosive gas mixture with air
 Reacts with strong oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
 strong oxidizing agents
 Strong bases
- **10.6 Hazardous decomposition products:**
 Formation of carbon monoxide and carbon dioxide in case of fire.

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:**

Oral	LD50	5,800 mg/kg (rat)
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Dermal	LD50	7,426-15,800 mg/kg (rbt)
Inhalative	LC 50 / 4 h	76 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.
- **Other information (about experimental toxicology):**
Frequent or prolonged contact may cause skin irritation (dermatitis).
- **Subacute to chronic toxicity:**
- **Germ cell mutagenicity:** Ames-Test: negativ
- **Carcinogenicity:** No data available.
- **Reproductive toxicity:** No data available.
- **STOT-single exposure:** No data available.

- **STOT-repeated exposure:**

Oral	NOAEL	900 mg/kg (rat) (KG/day 90 days)
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- **Additional toxicological information:**
Vapours in higher concentration have an irritating effect on the upper respiratory tract. Very high concentrations may cause dizziness, headaches and unconsciousness.
- **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:**

LC 50 / 96 h	7,500 mg/l (<i>Leuciscus idus</i>)
	5,540 mg/l (<i>Oncorhynchus mykiss</i>)
EC 50 / 48 h	8,800 mg/l (<i>Daphnia magna</i>)
EC 50 / 96 h	8,300 mg/l (<i>Lepomis macrochirus</i>)
	7,500 mg/l (<i>Selenastrum capricornutum</i>)

- **12.2 Persistence and degradability** The product is readily biodegradable.
- **12.3 Bioaccumulative potential**
Dissolves in water. Lost within a day by evaporation and dissolution.
Large volumes may penetrate soil and could contaminate groundwater.
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:**
Theoretical oxygen demand (calculated): 2,21 g O₂/g
Closed bottle test: BOD₅ bei 20 °C (sewage plant): 1,86 gO₂/g 84 % ThOD
- **Additional ecological information:**
- **General notes:**
Do not allow to enter drainage system, surface or ground water

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Water hazard class 1 (Assessment by list): slightly hazardous for water.

- 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

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. If possible, send to be recycled, otherwise burn or deposit in a certified facility.

- Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- Uncleaned packagings:

- Recommendation:

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

Caution: Leftovers in the containers may cause the risk of explosion.

Uncleaned containers should not be perforated, cut or welded.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

* SECTION 14: Transport information

<p>- 14.1 UN-Number - ADR, IMDG, IATA</p>	<p>UN1090</p>
<p>- 14.2 UN proper shipping name - ADR - IMDG, IATA</p>	<p>1090 ACETONE ACETONE</p>
<p>- 14.3 Transport hazard class(es) - ADR - Class - Label</p>	<p>3 (F1) Flammable liquids. 3</p>
<p>- IMDG, IATA - Class - Label</p>	<p>3 Flammable liquids. 3</p>
<p>- 14.4 Packing group - ADR, IMDG, IATA</p>	<p>II</p>
<p>- 14.5 Environmental hazards: - Marine pollutant:</p>	<p>no</p>
<p>- 14.6 Special precautions for user - Kehler Number: - EMS Number:</p>	<p>Warning: Flammable liquids. 33 F-E,S-D</p>

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- Stowage Category	E
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	1L
- 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)	1L
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN1090, ACETONE, 3, II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

- **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take action to prevent static discharges.

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.

P403+P235 Store in a well-ventilated place. Keep cool.

- **Directive 2012/18/EU**

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40

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- National regulations**- Information about limitation of use:***Employment restrictions concerning young persons must be observed.***- 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.

- Department issuing data specification sheet: see item 1: Informing department**- Abbreviations and acronyms:**

NOAEL: No Observed Adverse Effect Level

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

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 Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

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

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

- * Data compared to the previous version altered.**- ANNEX****Exposure Scenarios:**

Industrial Uses

Professional uses

Consumer end use

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* Annex: Exposure scenario 1

- **Short title of the exposure scenario** Industrial Uses
- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **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
 - PROC6 Calendering operations
 - 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
 - PROC12 Use of blowing agents in manufacture of foam
 - PROC13 Treatment of articles by dipping and pouring
 - PROC14 Tableting, compression, extrusion, pelletisation, granulation
 - PROC15 Use as laboratory reagent
 - PROC19 Manual activities involving hand contact
- **Environmental release category**
 - ERC1 Manufacture of the substance
 - ERC2 Formulation into mixture
 - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
 - ERC5 Use at industrial site leading to inclusion into/onto article
 - ERC6a Use of intermediate
 - ERC6d Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
 - ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
 - ERC10a Widespread use of articles with low release (outdoor)

ERC are to be checked with ECT tool.
- **Conditions of use**
- **Duration and frequency** Covers daily exposures up to 8 hours (unless stated differently)
- **Environment**
 - Indoor and outdoor applications
 - < 365 days/year
 - The ECT-acetone tool is supplied to calculate the maximum allowable tonnage at a site.
 - The tool can be downloaded from the web page of the phenol and derivatives REACH consortium. (<http://www.reachcentrum.eu/en/consortium-management/consortia-under-reach/phenol-derivatives-reachconsortium/phenol-derivatives-dossiers.aspx>)
- **Physical parameters**
- **Physical state**
 - Fluid
 - Vapour pressure: > 100 hPa (20 °C)
- **Concentration of the substance in the mixture** Covers concentrations up to: 100%
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure**
 - Local freshwater dilution factor: 10
 - Local marine water dilution factor: 100

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- Risk management measures

Sample via a closed loop or other system to avoid exposure. Handle substance within a closed system: (PROC1, PROC2, PROC3)

Ensure material transfers are under containment or extract ventilation. ((Effectiveness: 95%) or operation is undertaken outdoors. ((Effectiveness: 30%): PROC7

- Worker protection**- Organisational protective measures**

Deploy only trained chemical workers.

Keep good industrial hygiene.

- Technical protective measures

Ensure a good standard of general ventilation. Natural ventilation is from doors, windows etc.. Controlled ventilation means the supply or exhaust air by a powered fan.

Place bulk storage in the outdoor area.

- Personal protective measures

Breathing protection recommended.

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protective equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers.

Where air-filtering respirators are suitable, select an appropriate combination of mask and filter, select a filter suitable for organic gases and vapours (Boiling point >65°C.). Where respiratory protective equipment is required, use a full face mask.

Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space use appropriate positive pressure breathing apparatus.

Solvent resistant gloves

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Butylrubber, BR, recommended thickness of the material: ≥ 0.5 mm, penetration time: ≥ 240 min.

Tightly sealed safety glasses.

Standard protective working clothes

- Environmental protection measures

On the basis of currently available information on physico-chemical properties, environmental fate behaviour and ecotoxicity, acetone has not to be classified as 'dangerous for the environment' or assessed to be a PBT or vPvB. A risk characterization for the environment, addressing quantitatively all identified uses of the registrant is not required.

However, in order to provide DU with information to assess their local conditions, the ECT tool could be used to perform an environmental risk assessment. It includes predefined scenarios for safe use to address local working conditions of downstream-users, if needed.

ECT-acetone tool based on EUSES.

- Air

Treat air emissions to provide a typical removal (or abatement?) efficiency of: 90%

Typical technical measures are closed systems or scrubbers or carbon adsorbers.

- Water Outflow rate of sewage treatment plant: fixed by location.**- Disposal measures**

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

If possible, send to be recycled, otherwise burn or deposit in a certified facility.

- Exposure estimation The exposure estimation was carried out in accordance with ECETOC TRA.**- Worker (dermal)**

level of Exposure RCR

0,34 mg/kg/day 0,002 PROC1,PROC3, PROC12, PROC14, PROC15

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1,37 mg/kg/day	0,01	PROC2
6,86 mg/kg/day	0,04	PROC4, PROC9
13,71 mg/kg/day	0,07	PROC5, PROC8a, PROC13
27,43 mg/kg/day	0,15	PROC6, PROC10
2,14 mg/kg/day	0,01	PROC7 (TRA skin exposue LEV 0,05)
42,86 mg/kg/day	0,23	PROC7
6,86 mg/kg/day	0,037	PROC8b
0,34 mg/kg/day	0,00	PROC14, PROC15
28,29 mg/kg/day	0,15	PROC19

- Worker (inhalation)

level of Exposure	RCR	
0,01 ppm	0,00002	PROC1
50 ppm	0,10	PROC2, PROC7, PROC14, PROC15
100 ppm	0,20	PROC3, PROC4, PROC12
250 ppm	0,50	PROC5, PROC6, PROC8a, PROC10, PROC13, PROC19
25 ppm	0,05	PROC7 (TRA LEV efficiency: 95%)
350 ppm	0,70	PROC7 (Dilution Ventilation effectiveness: 30%)
150 ppm	0,30	PROC8b
200 ppm	0,40	PROC9

- Environment

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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* Annex: Exposure scenario 2

- **Short title of the exposure scenario** Professional uses
 - **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - **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
 PROC6 Calendering operations
 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
 PROC11 Non industrial spraying
 PROC13 Treatment of articles by dipping and pouring
 PROC15 Use as laboratory reagent
 PROC19 Manual activities involving hand contact
 - **Environmental release category**
 ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
 ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
 ERC8c Widespread use leading to inclusion into/onto article (indoor)
 ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
 ERC8e Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
 ERC8f Widespread use leading to inclusion into/onto article (outdoor)
 ERC are to be checked with ECT tool.
-
- **Conditions of use**
 - **Duration and frequency**
 Covers daily exposures up to 8 hours (unless stated differently)
 If no exhaust ventilation is available daily exposure of up to 4 hours: PROC5, PROC6, PROC8a, PROC10, PROC11, PROC14
 Substance content in the product > 25% exposure <1 h: PROC11, PROC19
 - **Environment**
 Indoor and outdoor applications
 < 365 days/year
 The ECT-acetone tool is supplied to calculate the maximum allowable tonnage at a site.
 The tool can be downloaded from the web page of the phenol and derivatives REACH consortium.
 (<http://www.reachcentrum.eu/en/consortium-management/consortia-under-reach/phenol-derivatives-reachconsortium/phenol-derivatives-dossiers.aspx>)
 - **Physical parameters**
 - **Physical state**
 Fluid
 Vapour pressure: > 100 hPa (20 °C)
 - **Concentration of the substance in the mixture**
 Covers concentrations up to: 100%
 Limit substance content in the product to 25%, if no exhaust ventilation is available: PROC10, PROC11, PROC19

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- Other operational conditions**- Other operational conditions affecting environmental exposure**

Local freshwater dilution factor: 10

Local marine water dilution factor: 100

- Risk management measures

Sample via a closed loop or other system to avoid exposure. Handle substance within a closed system: (PROC1, PROC2, PROC3)

Ensure material transfers are under containment or extract ventilation. (TRA LEV Effectiveness: 80%): PROC5, PROC8a, PROC10, PROC11, PROC14

or operation is performed outdoors. (Dilution ventilation efficiency: 30%): PROC5, PROC8a, PROC11

Ensure that the operation is performed outdoors (dilution ventilation efficiency: 30%) or outdoors with local ventilation (efficiency: 80%): PROC6

- Worker protection**- Organisational protective measures**

Deploy only trained chemical workers.

Keep good industrial hygiene.

- Technical protective measures

Ensure a good standard of general ventilation. Natural ventilation is from doors, windows etc.. Controlled ventilation means the supply or exhaust air by a powered fan.

Place bulk storage in the outdoor area.

- Personal protective measures

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protective equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers.

Where air-filtering respirators are suitable, select an appropriate combination of mask and filter, select a filter suitable for organic gases and vapours (Boiling point >65°C.). Where respiratory protective equipment is required, use a full face mask.

Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space use appropriate positive pressure breathing apparatus.

Solvent resistant gloves

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Butylrubber, BR, recommended thickness of the material: ≥ 0.5 mm, penetration time: ≥ 240 min.

Tightly sealed safety glasses.

Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

- Environmental protection measures

On the basis of currently available information on physico-chemical properties, environmental fate behaviour and ecotoxicity, acetone has not to be classified as 'dangerous for the environment' or assessed to be a PBT or vPvB. A risk characterization for the environment, addressing quantitatively all identified uses of the registrant is not required.

However, in order to provide DU with information to assess their local conditions, the ECT tool could be used to perform an environmental risk assessment. It includes predefined scenarios for safe use to address local working conditions of downstream-users, if needed.

ECT-acetone tool based on EUSES.

- Air

Treat air emissions to provide a typical removal (or abatement?) efficiency of: 90%

Typical technical measures are closed systems or scrubbers or carbon adsorbers.

- Water Outflow rate of sewage treatment plant: fixed by location.

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- Disposal measures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. If possible, send to be recycled, otherwise burn or deposit in a certified facility.

- **Exposure estimation** The exposure estimation was carried out in accordance with ECETOC TRA.

- Worker (dermal)

level of Exposure	RCR	
0,34 mg/kg/day	0,002	PROC1, PROC3, PROC14, PROC15
1,37 mg/kg/day	0,01	PROC2
6,86 mg/kg/day	0,04	PROC4, PROC8b, PROC9
0,07 mg/kg/day	0,00	PROC5 (TRA Dermal exposure LEV reduction factor 0,01)
13,71 mg/kg/day	0,07	PROC5, PROC8a, PROC13
27,43 mg/kg/day	0,15	PROC6, PROC10
2,14 mg/kg/day	0,01	PROC8a (TRA Dermal exposure LEV reduction factor 0,01)
1,37 mg/kg/day	0,007	PROC10 (TRA Dermal exposure LEV reduction factor 0,05)
16,46 mg/kg/day	0,09	PROC10 (TRA Concentration factor 5-25%)
2,14 mg/kg/day	0,01	PROC11 (TRA Dermal exposure LEV reduction factor 0,02)
64,28 mg/kg/day	0,35	PROC11 (TRA Concentration factor 5-25%)
107,14 mg/kg/day	0,58	PROC11
3,43 mg/kg/day	0,02	PROC14
16,97 mg/kg/day	0,09	PROC19 (TRA Concentration factor 5-25%, PPE factor: gloves)

- Worker (inhalation)

level of exposure	RCR	
0,01 ppm	0,00002	PROC1
50 ppm	0,10	PROC2, PROC15
100 ppm	0,20	PROC3
250 ppm	0,50	PROC4, PROC8b, PROC9, PROC13
100 ppm	0,20	PROC5, PROC8a, PROC10, PROC14 (TRA LEV efficiency: 80%)
350 ppm	0,70	PROC5, PROC8a (Dilution ventilation efficiency: 30%)
300 ppm	0,60	PROC5, PROC8a, PROC10 (TRA Duration factor 1-4 h)
300 ppm	0,60	PROC10, PROC19 (TRA concentration factor 5-25%)
420 ppm	0,84	PROC6 (TRA LEV efficiency: 80%)
420 ppm	0,84	PROC6 (Dilution ventilation efficiency: 30%)
360 ppm	0,72	PROC6 (TRA Duration factor 1-4 h)
200 ppm	0,40	PROC11 (TRA LEV efficiency: 80%)
252 ppm	0,50	PROC11 (Dilution ventilation efficiency: 30%), (TRA Duration factor 1-4-h), (TRA concentration factor 5-25%)
200 ppm	0,40	PROC11 (TRA Duration factor 15 min - 1h)
100 ppm	0,20	PROC11 (TRA RPE factor half mask)
100 ppm	0,20	PROC19 (TRA Duration factor 15 min - 1h)

- Environment

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

- Guidance for downstream users

Under the above listed conditions the process is deemed safe.

Other conditions should only be considered when measurements or suitable calculations show that the RCR is < 1.

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Annex: Exposure scenario 3

- **Short title of the exposure scenario** Consumer end use
- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Product category**
 - PC1 Adhesives, sealants
 - PC3 Air care products
 - PC4 Anti-Freeze and de-icing products
 - PC5 Art Supplies and Hobby Blends
 - PC9a Coatings and paints, thinners, paint removers
 - PC9b Fillers, putties, plasters, modelling clay
 - PC9c Finger paints
 - PC10 Construction and construction mixtures nowhere else called
 - PC15 Non-metal-surface treatment products
 - PC24 Lubricants, greases, release products
 - PC31 Polishes and wax blends
 - PC32 Polymer preparations and compounds
 - PC35 Washing and cleaning products (including solvent based products)
 - PC38 Welding and soldering products, flux products
- **Environmental release category** ERC are to be checked with ECT tool.

- **Conditions of use**

- **Duration and frequency**

4 incident(s)/day (unless stated differently)

Covers daily exposures up to 8 hours (unless stated differently)

- **Environment**

Indoor and outdoor applications

< 365 days/year

The ECT-acetone tool is supplied to calculate the maximum allowable tonnage at a site.

The tool can be downloaded from the web page of the phenol and derivatives REACH consortium.

(<http://www.reachcentrum.eu/en/consortium-management/consortia-under-reach/phenol-derivatives-reachconsortium/phenol-derivatives-dossiers.aspx>)

- **Physical parameters**

- **Physical state**

Fluid

Vapour pressure: > 100 hPa (20 °C)

- **Concentration of the substance in the mixture** Covers concentrations up to: 100%

- **Used amount per time or activity**

Unless otherwise stated, covers use amounts up to 37500g;

covers skin contact area up to 6600cm²

- **Other operational conditions**

Unless otherwise stated assumes use at ambient temperatures;

assumes use in a 20 m³ room;

assumes use with typical ventilation

- **Other operational conditions affecting consumer exposure**

PC1: Adhesives, sealants

Unless otherwise stated, covers concentrations ≤ 30%; covers use ≤ 1 time/on day of use; covers skin contact area up to 35.73 cm²; for each use event, covers use amounts ≤ 9g; for each use event, covers exposure ≤ 4.00 hr/event

PC1: Adhesives, sealants--Glues DIY-use (carpet glue, tile glue, wood parquet glue)

Unless otherwise stated, covers concentrations up to 30%; covers use up to 1 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 110.00 cm²; for each use event, covers use amounts up to 6390g; for each use event, covers exposure up to 6.00 hr/event;

PC1: Glue from spray

Unless otherwise stated, covers concentrations up to 30%; covers use up to 6 days/year; covers use up to

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1 time/on day of use; covers skin contact area up to 35.73 cm²; for each use event, covers use amounts up to 85.05g; for each use event, covers exposure up to 4.00hr/event

PC1: Sealants

Unless otherwise stated, covers concentrations up to 30%; covers use up to 1 time/on day of use; covers skin contact area up to 35.73 cm²; for each use event, covers use amounts up to 75g; for each use event, covers exposure up to 1.00hr/event

PC3: Air care, instant action (aerosol sprays)

Unless otherwise stated, covers concentrations up to 50%; covers use up to 4 times/day of use; for each use event, covers use amounts up to 0.1g; covers exposure up to 0.25hr/event

PC3: Air care, continuous action (solid and liquid)

Unless otherwise stated, covers concentrations up to 10%; covers use up to 1 time/on day of use; covers skin contact area up to 35.70 cm²; for each use event, covers use amounts up to 0.48g; for each use event, covers exposure up to 8.00hr/event

PC4: Washing car window

Unless otherwise stated, covers concentrations up to 1%; covers use up to 1 time/on day of use; for each use event, covers use amounts up to 0.5g; Covers use in a one car garage (34m³) under typical ventilation; covers use in room size of 34m³; for each use event, covers exposure up to 0.02hr/event

PC4: Pouring into radiator

Unless otherwise stated, covers concentrations up to 10%; covers use up to 1 time/on day of use; covers skin contact area up to 428.00 cm²; for each use event, covers use amounts up to 2000g; Covers use in a one car garage (34m³) under typical ventilation; covers use in room size of 34m³; for each use event, covers exposure up to 0.17hr/event

PC4: Lock deicer

Unless otherwise stated, covers concentrations up to 50%; covers use up to 1 time/on day of use; covers skin contact area up to 214.40 cm²; for each use event, covers use amounts up to 4g; Covers use in a one car garage (34m³) under typical ventilation; covers use in room size of 34m³; for each use event, covers exposure up to 0.25hr/event

PC9a: Waterborne latex wall paint

Unless otherwise stated, covers concentrations up to 1.5%; covers use up to 4 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 428.75 cm²; for each use event, covers use amounts up to 2760g; for each use event, covers exposure up to 2.20hr/event

PC9a: Solvent rich, high solid, water borne paint

Unless otherwise stated, covers concentrations up to 27.5%; covers use up to 6 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 428.75 cm²; for each use event, covers use amounts up to 744g; for each use event, covers exposure up to 2.20hr/event

PC9a: Aerosol spray can

Unless otherwise stated, covers concentrations up to 50%; covers use up to 2 days/year; covers use up to 1 time/on day of use; for each use event, covers use amounts up to 215g; Covers use in a one car garage (34m³) under typical ventilation; covers use in room size of 34m³; for each use event, covers exposure up to 0.33hr/event

PC9a: Removers (paint-, glue-, wall paper-, sealantremover)

Unless otherwise stated, covers concentrations up to 50%; covers use up to 3 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 857.50 cm²; for each use event, covers use amounts up to 491g; for each use event, covers exposure up to 2.00hr/event

PC9b: Fillers and putty

Unless otherwise stated, covers concentrations up to 2%; covers use up to 12 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 35.73 cm²; for each use event, covers use amounts up to 85g; for each use event, covers exposure up to 4.00hr/event

PC9b: Plasters and floor equalizers

Unless otherwise stated, covers concentrations up to 2%; covers use up to 12 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 857.50 cm²; for each use event, covers use amounts up to 13800g; for each use event, covers exposure up to 2.00hr/event

PC9b: Modelling clay

Unless otherwise stated, covers concentrations up to 1%; covers use up to 1 time/on day of use; covers skin contact area up to 254.40 cm²; for each use event, assumes swallowed amount of 1g

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PC9c: Finger paints

Unless otherwise stated, covers concentrations up to 50%; covers use up to 1 time/on day of use; covers skin contact area up to 254.40 cm²; for each use event, assumes swallowed amount of 1.35g

PC15: Solvent rich, high solid, water borne paint

Unless otherwise stated, covers concentrations up to 27.5%; covers use up to 6 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 428.75 cm²; for each use event, covers use amounts up to 744g; for each use event, covers exposure up to 2.20hr/event

PC15: Aerosol spray can

Unless otherwise stated, covers concentrations up to 50%; covers use up to 2 days/year; covers use up to 1 time/on day of use; for each use event, covers use amounts up to 215g; Covers use in a one car garage (34m³) under typical ventilation; covers use in room size of 34m³; for each use event, covers exposure up to 0.33hr/event

PC15: Removers (paint-, glue-, wall paper-, sealantremover)

Covers use up to 4 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 468.00 cm²; for each use event, covers use amounts up to 2.200g; Covers use in a one car garage (34m³) under typical ventilation; covers use in room size of 34m³; for each use event, covers exposure up to 0.17hr/event

PC24: Liquids

Unless otherwise stated, covers concentrations up to 20%; covers use up to 10 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 468.00 cm²; for each use event, covers use amounts up to 34g; Covers use in a one car garage (34m³) under typical ventilation; covers use in room size of 34m³; for each use event, covers exposure up to 0.17hr/event

PC24: Pastes

Unless otherwise stated, covers concentrations up to 50%; covers use up to 6 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 428,75 cm²; for each use event, covers use amounts up to 73g; for each use event, covers exposure up to 0.17hr/event

PC24: Sprays

Unless otherwise stated, covers concentrations up to 50%; covers use up to 29 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 430.00 cm²; for each use event, covers use amounts up to 142g; for each use event, covers exposure up to 1.23hr/event

PC31: Polishes, wax / cream (floor, furniture, shoes)

Unless otherwise stated, covers concentrations up to 50%; covers use up to 8 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 430.00 cm²; for each use event, covers use amounts up to 35g; for each use event, covers exposure up to 0.33hr/event

PC31: Polishes, spray (furniture, shoes)

Unless otherwise stated, covers concentrations up to 5%; covers use up to 1 time/on day of use; covers skin contact area up to 857,00 cm²; for each use event, covers use amounts up to 15g; for each use event, covers exposure up to 0.50hr/event

PC35: Laundry and dish washing products

Unless otherwise stated, covers concentrations up to 5%; covers use up to 128 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 857.50 cm²; for each use event, covers use amounts up to 27g; for each use event, covers exposure up to 0.33hr/event

PC35: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

Unless otherwise stated, covers concentrations up to 5%; covers use up to 128 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 857.50 cm²; for each use event, covers use amounts up to 27g; for each use event, covers exposure up to 0.33hr/event

- Other operational conditions affecting consumer exposure (continuation)**PC35: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)**

Unless otherwise stated, covers concentrations up to 15%; covers use up to 128 days/year; covers use up to 1 time/on day of use; covers skin contact area up to 428.00 cm²; for each use event, covers use amounts up to 35g; for each use event, covers exposure up to 0.17hr/event

PC38: NOTE, assessment not in TRA

Unless otherwise stated, covers concentrations up to 20%; covers use up to 1 time/on day of use; for each use event, covers use amounts up to 12g; for each use event, covers exposure up to 1.00hr/event

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- **Risk management measures** No specific RMMs identified beyond those operation conditions stated.

- **Worker protection**

- **Technical protective measures**

Ensure a good standard of general ventilation. Natural ventilation is from doors, windows etc.. Controlled ventilation means the supply or exhaust air by a powered fan.

- **Environmental protection measures**

On the basis of currently available information on physico-chemical properties, environmental fate behaviour and ecotoxicity, acetone has not to be classified as 'dangerous for the environment' or assessed to be a PBT or vPvB. A risk characterization for the environment, addressing quantitatively all identified uses of the registrant is not required.

However, in order to provide DU with information to assess their local conditions, the ECT tool could be used to perform a environmental risk assessment. It includes predefined scenarios for safe use to address local working conditions of downstream-users, if needed.

ECT-acetone tool based on EUSES.

- **Air** Not applicable

- **Water** Not applicable

- **Disposal measures**

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

If possible, send to be recycled, otherwise burn or deposit in a certified facility.

- **Exposure estimation**

- **Environment**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

- **Consumer**

When the recommended risk management measures (RMMs) and the operational conditions are observed, exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1.

- **Guidance for downstream users**

Under the above listed conditions the process is deemed safe.

Other conditions should only be considered when measurements or suitable calculations show that the RCR is < 1.