

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Acetone

Version 17.0

Revision Date: 27.12.2023

Former date: 07.11.2022

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

#### 1.1 Product identifier

Trade name : Acetone, Borvida B™ Acetone, Borvida C™ Acetone  
REACH Registration Number : 01-2119471330-49-0006, 01-2119471330-49-XXXX  
Substance name : Acetone  
Index-No. : 606-001-00-8  
EC-No. : 200-662-2

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

Use of the Substance/Mixture : Manufacture, Formulation, Use in laboratories, Use as an intermediate, Use in coatings, Use in binder and release agents, Use in rubber production and processing, Use in polymer processing, Use in polymer production, Use in cleaning agents, Oil field well drilling and production operations (including drilling muds and well cleaning) within closed or contained systems including incidental exposures during material transfers, on-site and activities and related maintenance., Use in blowing agents, Use in mining chemicals, Use in agrochemicals, Use in de-icing and anti-icing fluids, Use in explosives, Coatings and paints, thinners, paint removers, Fillers, putties, plasters, modelling clay, Heat transfer fluids, Cosmetics, personal care products, Lubricants, greases, release products, Polishes and wax blends

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer : Borealis Polymers Oy  
P.O.Box 330, FI-06101 Porvoo, Finland  
Telephone: +358 9 394900  
  
Supplier : Borealis AG  
Trabrennstrasse 6-8, 1020 Vienna, Austria  
Telephone: +43 1 22400 0  
  
E-mail address : [sds@borealisgroup.com](mailto:sds@borealisgroup.com)

#### 1.4 Emergency telephone number

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Borvida B and Borvida C are trademarks of the Borealis group.

Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria  
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)





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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : Acetone  
Index-No. : 606-001-00-8  
EC-No. : 200-662-2

#### Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
acetone	67-64-1 200-662-2	> 99	

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move the victim to fresh air.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.

If inhaled : Remove from exposure.  
Keep warm and at rest and provide fresh air.  
Give oxygen or artificial respiration if needed.

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- Seek medical advice immediately.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Obtain medical attention.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 10 minutes.  
Seek medical advice immediately.
- If swallowed : Seek medical advice immediately.  
Do NOT induce vomiting.  
Rinse mouth, ingest activated charcoal.

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

- Symptoms : Skin and eye contact:  
tingling
- Inhalation may provoke the following symptoms:  
Respiratory irritation
- Inhalation of high vapour concentrations may cause  
symptoms like headache, dizziness, tiredness, nausea and  
vomiting.
- Ingestion may provoke the following symptoms:  
Gastrointestinal discomfort
- Skin contact:  
Repeated exposure may cause skin dryness or cracking.
- Risks : Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

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

- Treatment : Symptoms of poisoning may not appear for several hours.  
Keep under medical supervision for at least 48 hours.  
Artificial respiration and/or oxygen may be necessary.  
Risk of delayed pulmonary oedema.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam  
Dry powder
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Water mist  
Carbon dioxide (CO<sub>2</sub>)

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Incomplete combustion may produce:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Vapours may form explosive mixtures with air.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.  
Complete suit protecting against chemicals Flame retardant protective clothing

Further information : Remove all sources of ignition.  
Cool containers/tanks with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so.  
Keep people away from and upwind of spill/leak.  
Use personal protective equipment.

### 6.2 Environmental precautions

Attempt to stop leakage without personal risk.  
Should not be released into the environment.  
Prevent product from entering drains.  
Local authorities should be advised if significant spillages cannot be contained.  
Observe the risk of explosion.

### 6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation, especially in confined areas.

Clean-up methods - large spillage  
Dam up.

Large spills should be collected mechanically (remove by pumping) for disposal.

Clean-up methods - small spillage

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

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national regulations (see section 13).

Non-sparking tools should be used.  
Vapours are heavier than air and may spread along floors.  
Pay attention to flashback.  
The product evaporates readily.

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Ensure adequate ventilation.  
Provide exhaust ventilation close to floor level.  
Refill and handle product only in closed system.  
Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin, eyes and clothing.  
Avoid exposure - obtain special instructions before use.  
Wash hands before breaks and immediately after handling the product.  
When using do not eat, drink or smoke.  
Ensure that eyewash stations and safety showers are close to the workstation location.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. No smoking.  
Take precautionary measures against static discharges. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.  
Keep in a dry place. Protect from sunlight. Keep product and empty container away from heat and sources of ignition.  
Locate bulk storage outdoors.

Advice on common storage : Keep away from incompatible materials.  
See chapter 10.

### 7.3 Specific end use(s)

Specific use(s) : Solvent

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
acetone	67-64-1	TWA	500 ppm 1.210 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
		HTP-arvot 8h	500 ppm 1.200 mg/m <sup>3</sup>	FI OEL
		HTP-arvot 15 min	630 ppm 1.500 mg/m <sup>3</sup>	FI OEL

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
acetone	Workers	Inhalation	Acute local effects	2420 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	1210 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	186 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	200 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	62 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	62 mg/kg bw/day

##### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
acetone	Fresh water	10,6 mg/l
	Intermittent use/release	21 mg/l
	Marine water	1,06 mg/l
	Fresh water sediment	30,4 mg/kg
	Marine sediment	3,04 mg/kg
	Soil	29,5 mg/kg
	Sewage treatment plant	100 mg/l
	Fresh water	10,6 mg/l
	Intermittent use/release	21 mg/l
	Marine water	1,06 mg/l
	Fresh water sediment	30,4 mg/kg
	Marine sediment	3,04 mg/kg
	Soil	29,5 mg/kg

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	Sewage treatment plant	100 mg/l
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### 8.2 Exposure controls

#### Engineering measures

Use only explosion-proof equipment.  
Provide adequate ventilation.

#### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

#### Hand protection

Material : butyl-rubber  
Break through time : > 240 min  
Glove thickness : 0,5 mm

Remarks : For prolonged or repeated contact use protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Use solvent-resistant protective clothing.  
Flame retardant protective clothing  
Safety shoes according to EN 345-347.

Respiratory protection : Wear respiratory protection when its use is identified for certain contributing scenario.

Filter type : Organic gas and low boiling vapour type (AX)

#### Environmental exposure controls

General advice : Attempt to stop leakage without personal risk. Should not be released into the environment. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Observe the risk of explosion.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

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Colour	:	colourless
Odour	:	sweet, aromatic
Odour Threshold	:	19,8 ppm
Melting point	:	-94,7 °C
Boiling point	:	56 °C
Flammability	:	Highly flammable.
Upper explosion limit / Upper flammability limit	:	14,3 %(V)
Lower explosion limit / Lower flammability limit	:	2,5 %(V)
Flash point	:	-17 °C
Auto-ignition temperature	:	465 °C
Decomposition temperature	:	No data available
pH	:	7 Concentration: 10 g/l
Viscosity		
Viscosity, dynamic	:	0,32 mPa.s (20 °C)
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	miscible with most organic solvents (20 °C) Solvent: Fat solubility
Partition coefficient: n-octanol/water	:	log Pow: -0,24
Vapour pressure	:	240 hPa (20 °C) 800 hPa (50 °C)
Relative density	:	0,79 (20 °C)
Density	:	0,79 g/cm <sup>3</sup>

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Relative vapour density : 2,1 (20 °C)  
Particle size : Not applicable, (liquid)  
Particle characteristics  
Particle Size Distribution : Not applicable, (liquid)

### 9.2 Other information

Explosives : Not explosive  
Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Evaporation rate : 2,0  
(ether = 1)  
Molecular weight : 58,08 g/mol

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts with the following substances:  
Bases

### 10.2 Chemical stability

Vapours may form explosive mixtures with air.  
Vapours are heavier than air and may spread along floors.  
Pay attention to flashback.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.  
Exposure to light.

### 10.5 Incompatible materials

Materials to avoid : May attack many plastics, rubbers and coatings.  
Keep away from:  
Bases  
Oxidizing agents  
Amines

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### 10.6 Hazardous decomposition products

Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Components:

##### acetone:

Acute oral toxicity : LD50 (Rat): 5.800 mg/kg  
Acute inhalation toxicity : LC50: 76 mg/l  
Test atmosphere: vapour  
Acute dermal toxicity : LD50 (Guinea pig, male): > 7.426 mg/kg

#### Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

#### Components:

##### acetone:

Species : Guinea pig  
Remarks : No skin irritation

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

##### acetone:

Species : Rabbit  
Method : OECD Test Guideline 405  
Remarks : slight irritation

#### Respiratory or skin sensitisation

##### Skin sensitisation

Based on available data, the classification criteria are not met.

##### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Components:

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### acetone:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Remarks : Does not cause skin sensitisation.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Components:

##### acetone:

Genotoxicity in vitro : Test Type: gene mutation test  
Method: OECD Test Guideline 471  
Result: negative

: Test Type: In vitro gene mutation study in mammalian cells  
Method: OECD Test Guideline 476  
Result: negative

: Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay  
Species: Mouse  
Application Route: Oral  
Result: negative

### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Components:

##### acetone:

Species : Mouse, female  
Application Route : Dermal  
Exposure time : 1 yr  
Remarks : negative

### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### Components:

##### acetone:

Effects on fertility : Remarks: study scientifically unjustified

Effects on foetal development : Application Route: Inhalation  
General Toxicity Maternal: NOAEC: 5.300 mg/m<sup>3</sup>

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### STOT - single exposure

May cause drowsiness or dizziness.

### STOT - repeated exposure

Based on available data, the classification criteria are not met.

### Repeated dose toxicity

#### Components:

##### **acetone:**

Species : Rat, male  
NOAEL : 900 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408

Species : Rat, male  
Application Route : Inhalation  
Exposure time : 40 d

### Aspiration toxicity

Based on available data, the classification criteria are not met.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : May be absorbed into the body by inhalation and through the skin.  
Effects due to ingestion may include:  
Gastrointestinal disturbance

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Product:

##### **Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : This product has no known ecotoxicological effects.

##### Components:

##### **acetone:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.540 mg/l  
Exposure time: 96 h  
Test Type: static test  
Remarks: Fresh water

LC50 (bleak (Alburnus alburnus)): 11.000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Remarks: Marine water

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia pulex (Water flea)): 8.800 mg/l  
Exposure time: 48 h  
Test Type: static test  
Remarks: Fresh water

LC50 (Artemia salina): 2.100 mg/l  
Exposure time: 24 h  
Test Type: static test  
Remarks: Marine water

Toxicity to algae/aquatic plants : NOEC (Microcystis aeruginosa): 530 mg/l  
Exposure time: 8 d  
Test Type: static test  
Remarks: Fresh water

NOEC (Prorocentrum minimum): 430 mg/l  
Exposure time: 96 h  
Remarks: Marine water

Toxicity to microorganisms : EC12 (Bacteria): 1.000 mg/l  
Exposure time: 30 min  
Test Type: Respiration inhibition of activated sludge

Toxicity to fish (Chronic toxicity) : Remarks: study scientifically unjustified

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2.212 mg/l  
Exposure time: 28 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Remarks: Fresh water

### 12.2 Persistence and degradability

#### Product:

Stability in water : Hydrolysis: (0 %)  
Photodegradation : Test Type: Air  
Half-life (direct photolysis): 10 d

#### Components:

##### acetone:

Biodegradability : Biodegradation: 91 %  
Method: OECD Test Guideline 301B  
Remarks: Readily biodegradable.  
  
Biodegradation: 84 %  
Related to: Theoretical oxygen demand  
  
Test Type: activated sludge  
Biodegradation: 100 %

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Bioconcentration factor (BCF): 3  
Method: calculated  
Remarks: Bioaccumulation not expected: Partition coefficient (n-octanol/water) log Kow < 3.

#### Components:

##### acetone:

Partition coefficient: n-octanol/water : log Pow: -0,24

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: Soil, High mobility

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Remarks: Water:, The product evaporates readily.

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Dispose of as hazardous waste in compliance with local and national regulations.  
Do not dispose of together with household waste.  
List of suggested waste codes/waste designations in accordance with the EWC:  
07 01 04\* (other organic solvents, washing liquids and mother liquors)
- Contaminated packaging : Dispose of as hazardous waste in compliance with local and national regulations.



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### SECTION 14: Transport information

#### 14.1 UN number or ID number

**ADR** : UN 1090  
**RID** : UN 1090  
**IMDG** : UN 1090

#### 14.2 UN proper shipping name

**ADR** : ACETONE  
**RID** : ACETONE  
**IMDG** : ACETONE

#### 14.3 Transport hazard class(es)

**ADR** : 3  
**RID** : 3  
**IMDG** : 3

#### 14.4 Packing group

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

**RID**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

**IMDG**  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D

#### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : no

**RID**  
Environmentally hazardous : no

**IMDG**

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Marine pollutant : no

### 14.6 Special precautions for user

Remarks : SDS: No specific instructions needed.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Ship type : N/A

Pollution category : Z

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 40, 3

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: acetone (ANNEX II)  
all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point., Industrial use

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
P5a/b/c FLAMMABLE LIQUIDS

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria  
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)



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EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
FI OEL : Finland. HTP Values - Concentrations Known to be Harmful  
2000/39/EC / TWA : Limit Value - eight hours  
FI OEL / HTP-arvot 8h : Long term exposure limit  
FI OEL / HTP-arvot 15 min : Short term exposure limit

### Further information

Other information : Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Issuer : Borealis, Group Product Stewardship / Mikaela Eriksson.

Sources of key data used to compile the Safety Data Sheet : International Chemical Safety Card, Acetone, April 1994 (<http://www.inchem.org/documents/icsc/icsc/eics0087.htm>)  
Environment Guide 71; Environmental properties of chemicals, Finnish Environment Institute, Helsinki 2000  
REACH Registration Dossier Acetone. P&D-REACH Consortium, 2022

### Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

**Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.**

**It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.**

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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## Annex: Exposure Scenarios

### Table of Contents

#### Identified uses:

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#### Use: Manufacture of substance, Use at industrial sites

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Main User Groups : **SU3:** Industrial uses  
Process categories : **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  
**PROC5:** Mixing or blending in batch processes  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC15:** Use as laboratory reagent  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC1:** Manufacture of the substance

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-1\\_Manufacture.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-1_Manufacture.pdf)

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#### Use: Formulation & (re)packing of substances and mixtures, Formulation or re-packing

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Main User Groups : **SU3:** Industrial uses  
Chemical product category : **PC0:** Other  
**PC1:** Adhesives, sealants  
**PC3:** Air care products  
**PC4:** Anti-freeze and de-icing products  
**PC8:** Biocidal products  
**PC9a:** Coatings and paints, thinners, paint removers  
**PC9b:** Fillers, putties, plasters, modelling clay  
**PC9c:** Finger paints

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**PC12:** Fertilizers  
**PC15:** Non-metal surface treatment products  
**PC21:** Laboratory chemicals  
**PC24:** Lubricants, greases, release products  
**PC27:** Plant protection products  
**PC29:** Pharmaceuticals  
**PC30:** Photo-chemicals  
**PC31:** Polishes and wax blends  
**PC32:** Polymer preparations and compounds  
**PC35:** Washing and cleaning products  
**PC38:** Welding and soldering products, flux products  
**PC39:** Cosmetics, personal care products

Process categories : **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  
**PROC5:** Mixing or blending in batch processes  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC15:** Use as laboratory reagent  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC2:** Formulation into mixture

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-2-Formulation-or-repacking\\_distribution.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-2-Formulation-or-repacking_distribution.pdf)

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### Use: Use as an intermediate, Use at industrial sites

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Main User Groups : **SU3:** Industrial uses  
Sectors of end-use : **SU8, SU9:** Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals  
Chemical product category : **PC0:** Other  
**PC21:** Laboratory chemicals  
**PC29:** Pharmaceuticals  
**PC30:** Photo-chemicals  
**PC35:** Washing and cleaning products  
**PC39:** Cosmetics, personal care products

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- Process categories : **PROC2:** Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions  
**PROC5:** Mixing or blending in batch processes  
**PROC6:** Calendaring operations  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC15:** Use as laboratory reagent  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC28:** Manual maintenance (cleaning and repair) of machinery
- Environmental Release Categories : **ERC6a:** Use of intermediate

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-3-Use-at-industrial-sites\\_Use-of-substance-as-intermediate-Z.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-3-Use-at-industrial-sites_Use-of-substance-as-intermediate-Z.pdf)

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### Use: Use as an intermediate, Use at industrial sites

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- Main User Groups : **SU3:** Industrial uses
- Sectors of end-use : **SU8, SU9:** Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals
- Chemical product category : **PC0:** Other  
**PC21:** Laboratory chemicals  
**PC29:** Pharmaceuticals  
**PC30:** Photo-chemicals  
**PC35:** Washing and cleaning products  
**PC39:** Cosmetics, personal care products
- Process categories : **PROC2:** Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions  
**PROC5:** Mixing or blending in batch processes  
**PROC6:** Calendaring operations  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC15:** Use as laboratory reagent  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC28:** Manual maintenance (cleaning and repair) of machinery
- Environmental Release Categories : **ERC6a:** Use of intermediate

Additional information available from:

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[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-4-Use-at-industrial-sites\\_Use-of-substance-as-intermediate-A.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-4-Use-at-industrial-sites_Use-of-substance-as-intermediate-A.pdf)

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### Use: Use as an intermediate, Use at industrial sites

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Main User Groups	: <b>SU3:</b> Industrial uses
Sectors of end-use	: <b>SU8, SU9:</b> Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals
Chemical product category	: <b>PC0:</b> Other <b>PC21:</b> Laboratory chemicals <b>PC29:</b> Pharmaceuticals <b>PC30:</b> Photo-chemicals <b>PC35:</b> Washing and cleaning products <b>PC39:</b> Cosmetics, personal care products
Process categories	: <b>PROC2:</b> Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions <b>PROC5:</b> Mixing or blending in batch processes <b>PROC6:</b> Calendering operations <b>PROC8b:</b> Transfer of substance or mixture (charging/discharging) at dedicated facilities <b>PROC15:</b> Use as laboratory reagent <b>PROC8a:</b> Transfer of substance or mixture (charging/discharging) at non dedicated-facilities <b>PROC28:</b> Manual maintenance (cleaning and repair) of machinery
Environmental Release Categories	: <b>ERC6a:</b> Use of intermediate

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-5-Use-at-industrial-sites\\_Use-of-substance-as-intermediate-B.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-5-Use-at-industrial-sites_Use-of-substance-as-intermediate-B.pdf)

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### Use: Use as an intermediate, Use at industrial sites

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Main User Groups	: <b>SU3:</b> Industrial uses
Sectors of end-use	: <b>SU8, SU9:</b> Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals
Chemical product category	: <b>PC0:</b> Other <b>PC21:</b> Laboratory chemicals

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- PC29:** Pharmaceuticals  
**PC30:** Photo-chemicals  
**PC35:** Washing and cleaning products  
**PC39:** Cosmetics, personal care products
- Process categories : **PROC2:** Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions  
**PROC5:** Mixing or blending in batch processes  
**PROC6:** Calendering operations  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC15:** Use as laboratory reagent  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC6a:** Use of intermediate

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-6-Use-at-industrial-sites\\_Use-of-substance-as-intermediate-C.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-6-Use-at-industrial-sites_Use-of-substance-as-intermediate-C.pdf)

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### Use: Solvents, Use at industrial sites

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- Main User Groups : **SU3:** Industrial uses  
Sectors of end-use : **SU6b, SU8, SU9:** Manufacture of pulp, paper and paper products, Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals
- Chemical product category : **PC0:** Other  
**PC8:** Biocidal products  
**PC21:** Laboratory chemicals  
**PC26:** Paper and board treatment products  
**PC27:** Plant protection products  
**PC29:** Pharmaceuticals  
**PC30:** Photo-chemicals  
**PC35:** Washing and cleaning products  
**PC39:** Cosmetics, personal care products
- Process categories : **PROC2:** Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions  
**PROC5:** Mixing or blending in batch processes  
**PROC8b:** Transfer of substance or mixture
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(charging/discharging) at dedicated facilities

**PROC15:** Use as laboratory reagent

**PROC8a:** Transfer of substance or mixture

(charging/discharging) at non dedicated-facilities

**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC4:** Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-7-Use-at-industrial-sites\\_Use-as-solvent-during-synthesis-of-chemicals-processing-not-covered-otherwise.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-7-Use-at-industrial-sites_Use-as-solvent-during-synthesis-of-chemicals-processing-not-covered-otherwise.pdf)

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### Use: Use in laboratories, Use at industrial sites

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- Main User Groups : **SU3:** Industrial uses
- Sectors of end-use : **SU8, SU9, SU24:** Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals, Scientific research and development
- Chemical product category : **PC0:** Other
- PC1:** Adhesives, sealants
  - PC3:** Air care products
  - PC4:** Anti-freeze and de-icing products
  - PC8:** Biocidal products
  - PC9a:** Coatings and paints, thinners, paint removers
  - PC9b:** Fillers, putties, plasters, modelling clay
  - PC9c:** Finger paints
  - PC12:** Fertilizers
  - PC15:** Non-metal surface treatment products
  - PC21:** Laboratory chemicals
  - PC24:** Lubricants, greases, release products
  - PC27:** Plant protection products
  - PC29:** Pharmaceuticals
  - PC30:** Photo-chemicals
  - PC31:** Polishes and wax blends
  - PC32:** Polymer preparations and compounds
  - PC35:** Washing and cleaning products
  - PC38:** Welding and soldering products, flux products
  - PC39:** Cosmetics, personal care products
  - PC40:** Extraction agents
- Process categories : **PROC10:** Roller application or brushing
- PROC15:** Use as laboratory reagent
- PROC19:** Manual activities involving hand contact
- PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities
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**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC4:** Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-8-Use-at-industrial-sites\\_Use-in-laboratories.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-8-Use-at-industrial-sites_Use-in-laboratories.pdf)

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### Use: Use in coatings, Use at industrial sites

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Main User Groups : **SU3:** Industrial uses  
Sectors of end-use : **SU0, SU15, SU16, SU17, SU18:** Other, Manufacture of fabricated metal products, except machinery and equipment, Manufacture of computer, electronic and optical products, electrical equipment, General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment, Manufacture of furniture

Chemical product category : **PC1:** Adhesives, sealants  
**PC9a:** Coatings and paints, thinners, paint removers  
**PC9b:** Fillers, putties, plasters, modelling clay  
**PC9c:** Finger paints

Process categories : **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/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/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, pelettisation, granulation

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**PROC15:** Use as laboratory reagent  
**PROC19:** Manual activities involving hand contact  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC4:** Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-9-Use-at-industrial-sites\\_Use-in-coatings\\_adhesives.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-9-Use-at-industrial-sites_Use-in-coatings_adhesives.pdf)

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### Use: Use in binder and release agents, Use at industrial sites

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Main User Groups : **SU3:** Industrial uses  
Process categories : **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/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/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  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC5:** Use at industrial site leading to inclusion into/onto article

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-10-Use-at-industrial-sites\\_-Use-as-binder-or-release-agent.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-10-Use-at-industrial-sites_-Use-as-binder-or-release-agent.pdf)

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### Use: Use in rubber production and processing, Use at industrial sites

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Main User Groups	: <b>SU3:</b> Industrial uses
Sectors of end-use	: <b>SU11:</b> Manufacture of rubber products
Process categories	: <b>PROC1:</b> Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions <b>PROC2:</b> Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions <b>PROC3:</b> Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition <b>PROC4:</b> Chemical production where opportunity for exposure arises <b>PROC5:</b> Mixing or blending in batch processes <b>PROC6:</b> Calendering operations <b>PROC7:</b> Industrial spraying <b>PROC8a:</b> Transfer of substance or mixture (charging/discharging) at non dedicated-facilities <b>PROC8b:</b> Transfer of substance or mixture (charging/discharging) at dedicated facilities <b>PROC9:</b> Transfer of substance or mixture into small containers (dedicated filling line, including weighing) <b>PROC10:</b> Roller application or brushing <b>PROC13:</b> Treatment of articles by dipping and pouring <b>PROC14:</b> Tableting, compression, extrusion, pelettisation, granulation <b>PROC28:</b> Manual maintenance (cleaning and repair) of machinery
Environmental Release Categories	: <b>ERC6d:</b> Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-11-Use-at-industrial-sites\\_Rubber-production-and-processing.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-11-Use-at-industrial-sites_Rubber-production-and-processing.pdf)

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### Use: Use in polymer production, Use at industrial sites

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Main User Groups	: <b>SU3:</b> Industrial uses
Sectors of end-use	: <b>SU12:</b> Manufacture of plastics products, including

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Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria  
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)



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- Chemical product category : compounding and conversion  
**PC32:** Polymer preparations and compounds
- Process categories : **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/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/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, pelettisation, granulation  
**PROC15:** Use as laboratory reagent  
**PROC28:** Manual maintenance (cleaning and repair) of machinery
- Environmental Release Categories : **ERC6d:** Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-12-Use-at-industrial-sites\\_Polymer-manufacturing.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-12-Use-at-industrial-sites_Polymer-manufacturing.pdf)

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### Use: Use in polymer processing, Use at industrial sites

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- Main User Groups : **SU3:** Industrial uses  
Sectors of end-use : **SU12:** Manufacture of plastics products, including compounding and conversion
- Chemical product category : **PC32:** Polymer preparations and compounds
- Process categories : **PROC1:** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent
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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/discharging) at non dedicated-facilities

**PROC8b:** Transfer of substance or mixture (charging/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, pelettisation, granulation

**PROC15:** Use as laboratory reagent

**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC6d:** Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-13-Use-at-industrial-sites\\_Polymer-processing.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-13-Use-at-industrial-sites_Polymer-processing.pdf)

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### Use: Use in cleaning agents, Use at industrial sites

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Main User Groups : **SU3:** Industrial uses  
Sectors of end-use : **SU6b, SU8, SU9:** Manufacture of pulp, paper and paper products, Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals

Chemical product category : **PC8:** Biocidal products  
**PC9a:** Coatings and paints, thinners, paint removers  
**PC21:** Laboratory chemicals  
**PC26:** Paper and board treatment products  
**PC30:** Photo-chemicals  
**PC35:** Washing and cleaning products

Process categories : **PROC1:** Chemical production or refinery in closed process

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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/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/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  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC4:** Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-14-Use-at-industrial-sites\\_Use-in-or-as-cleaning-agent.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-14-Use-at-industrial-sites_Use-in-or-as-cleaning-agent.pdf)

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**Use: Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance., Use at industrial sites**

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Main User Groups : **SU3:** Industrial uses  
Sectors of end-use : **SU2a, SU2b:** Mining, (without offshore industries), Offshore industries  
Chemical product category : **PC8:** Biocidal products  
**PC35:** Washing and cleaning products  
**PC41:** Oil and gas exploration or production products  
Process categories : **PROC1:** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

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**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

**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities

**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities

**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC4:** Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-15-Use-at-industrial-sites\\_Use-in-oil-field-drilling-and-production-operations.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-15-Use-at-industrial-sites_Use-in-oil-field-drilling-and-production-operations.pdf)

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### Use: Use in blowing agents, Use at industrial sites

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Main User Groups : **SU3:** Industrial uses

Sectors of end-use : **SU0, SU5, SU16, SU17, SU18, SU19:** Other, Manufacture of textiles, leather, fur, Manufacture of computer, electronic and optical products, electrical equipment, General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment, Manufacture of furniture, Building and construction work

Process categories : **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

**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities

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

**PROC12:** Use of blowing agents in manufacture of foam

**PROC8a:** Transfer of substance or mixture

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(charging/discharging) at non dedicated-facilities  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC4:** Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-16-Use-at-industrial-sites\\_-\\_Blowing-agents.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-16-Use-at-industrial-sites_-_Blowing-agents.pdf)

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### Use: Production of foam-based objects, Service life - consumers

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Main User Groups : **SU21:** Consumer uses  
Environmental Release Categories : **ERC10a, ERC11a:** Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-17-Service-life-consumers\\_Articles-containing-foam.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-17-Service-life-consumers_Articles-containing-foam.pdf)

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### Use: Use in mining chemicals, Use at industrial sites

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Main User Groups : **SU3:** Industrial uses  
Sectors of end-use : **SU2a:** Mining, (without offshore industries)  
Process categories : **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  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC9:** Transfer of substance or mixture into small containers (dedicated filling line, including weighing)  
**PROC8a:** Transfer of substance or mixture

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(charging/discharging) at non dedicated-facilities  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC4:** Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-18-Use-at-industrial-sites\\_Mining-chemicals.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-18-Use-at-industrial-sites_Mining-chemicals.pdf)

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### Use: Use in laboratories, Widespread use by professional workers

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Main User Groups : **SU22:** Professional uses  
Sectors of end-use : **SU8, SU9, SU24:** Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals, Scientific research and development

Chemical product category : **PC1:** Adhesives, sealants  
**PC3:** Air care products  
**PC4:** Anti-freeze and de-icing products  
**PC8:** Biocidal products  
**PC9a:** Coatings and paints, thinners, paint removers  
**PC9b:** Fillers, putties, plasters, modelling clay  
**PC9c:** Finger paints  
**PC12:** Fertilizers  
**PC15:** Non-metal surface treatment products  
**PC21:** Laboratory chemicals  
**PC24:** Lubricants, greases, release products  
**PC27:** Plant protection products  
**PC29:** Pharmaceuticals  
**PC30:** Photo-chemicals  
**PC31:** Polishes and wax blends  
**PC32:** Polymer preparations and compounds  
**PC35:** Washing and cleaning products  
**PC38:** Welding and soldering products, flux products  
**PC39:** Cosmetics, personal care products  
**PC40:** Extraction agents

Process categories : **PROC10:** Roller application or brushing  
**PROC15:** Use as laboratory reagent  
**PROC19:** Manual activities involving hand contact  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

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Environmental Release Categories : **ERC8a:** Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-19-Widespread-use-by-professional-workers\\_Use-in-laboratories.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-19-Widespread-use-by-professional-workers_Use-in-laboratories.pdf)

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### Use: Use in coatings, Widespread use by professional workers

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Main User Groups : **SU22:** Professional uses  
Sectors of end-use : **SU0, SU15, SU16, SU17, SU18, SU6a:** Other, Manufacture of fabricated metal products, except machinery and equipment, Manufacture of computer, electronic and optical products, electrical equipment, General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment, Manufacture of furniture, Manufacture of wood and wood products

Chemical product category : **PC1:** Adhesives, sealants  
**PC9a:** Coatings and paints, thinners, paint removers  
**PC9b:** Fillers, putties, plasters, modelling clay  
**PC9c:** Finger paints

Process categories : **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  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/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  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

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Environmental Release Categories : **ERC8d, ERC8a, ERC8f, ERC8c:** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor), Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor), Widespread use leading to inclusion into/onto article (outdoor), Widespread use leading to inclusion into/onto article (indoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-20-Widespread-use-by-professional-workers-\\_Use-in-coatings\\_adhesives.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-20-Widespread-use-by-professional-workers-_Use-in-coatings_adhesives.pdf)

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### Use: Use in binder and release agents, Widespread use by professional workers

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Main User Groups : **SU22:** Professional uses  
Process categories : **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/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/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  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC8d, ERC8a, ERC8e, ERC8b, ERC8f, ERC8c:** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor), Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor), Widespread use of reactive processing aid (no inclusion into or onto article, outdoor), Widespread use of reactive processing aid (no inclusion into or onto article, indoor),

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Widespread use leading to inclusion into/onto article (outdoor), Widespread use leading to inclusion into/onto article (indoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-21-Widespread-use-by-professional-workers\\_Use-as-binder-and-release-agent.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-21-Widespread-use-by-professional-workers_Use-as-binder-and-release-agent.pdf)

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### Use: Use in polymer production, Widespread use by professional workers

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- Main User Groups : **SU22:** Professional uses
- Sectors of end-use : **SU12:** Manufacture of plastics products, including compounding and conversion
- Chemical product category : **PC32:** Polymer preparations and compounds
- Process categories : **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  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC9:** Transfer of substance or mixture into small containers (dedicated filling line, including weighing)  
**PROC14:** Tableting, compression, extrusion, pelettisation, granulation  
**PROC28:** Manual maintenance (cleaning and repair) of machinery
- Environmental Release Categories : **ERC8d, ERC8a, ERC8f:** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor), Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor), Widespread use leading to inclusion into/onto article (outdoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-22-Widespread-use-by-professional-workers\\_Polymer-manufacturing.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-22-Widespread-use-by-professional-workers_Polymer-manufacturing.pdf)

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### Use: Use in polymer processing, Widespread use by professional workers

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Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria  
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)



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- Main User Groups : **SU22:** Professional uses  
Sectors of end-use : **SU12:** Manufacture of plastics products, including compounding and conversion  
Chemical product category : **PC32:** Polymer preparations and compounds  
Process categories : **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  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC9:** Transfer of substance or mixture into small containers (dedicated filling line, including weighing)  
**PROC14:** Tableting, compression, extrusion, pelettisation, granulation  
**PROC28:** Manual maintenance (cleaning and repair) of machinery  
Environmental Release Categories : **ERC8d, ERC8a, ERC8f:** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor), Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor), Widespread use leading to inclusion into/onto article (outdoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-23-Widespread-use-by-professional-workers\\_Polymer-processing.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-23-Widespread-use-by-professional-workers_Polymer-processing.pdf)

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### Use: Use in cleaning agents, Widespread use by professional workers

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- Main User Groups : **SU22:** Professional uses  
Sectors of end-use : **SU6b, SU8, SU9:** Manufacture of pulp, paper and paper products, Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals  
Chemical product category : **PC21:** Laboratory chemicals  
**PC26:** Paper and board treatment products  
**PC30:** Photo-chemicals  
**PC35:** Washing and cleaning products  
**PC8:** Biocidal products  
**PC9a:** Coatings and paints, thinners, paint removers
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Process categories : **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  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/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  
**PROC19:** Manual activities involving hand contact  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC8a:** Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-24-Widespread-use-by-professional-workers\\_Use-in-or-as-cleaning-agents.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-24-Widespread-use-by-professional-workers_Use-in-or-as-cleaning-agents.pdf)

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**Use: Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance., Widespread use by professional workers**

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Main User Groups : **SU22:** Professional uses  
Sectors of end-use : **SU2a, SU2b:** Mining, (without offshore industries), Offshore industries  
Chemical product category : **PC35:** Washing and cleaning products  
**PC41:** Oil and gas exploration or production products  
**PC8:** Biocidal products  
Process categories : **PROC1:** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

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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

**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities

**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities

**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC8d:** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Additional information available from:

<https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-25-Widespread-use-by-professional-workers-Use-in-oil-field-drilling-and-production-operations.pdf>

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### Use: Use in agrochemicals, Widespread use by professional workers

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Main User Groups : **SU22:** Professional uses  
Sectors of end-use : **SU1:** Agriculture, forestry, fishery  
Chemical product category : **PC12:** Fertilizers  
**PC27:** Plant protection products  
**PC8:** Biocidal products

Process categories : **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  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC11:** Non-industrial spraying  
**PROC13:** Treatment of articles by dipping and pouring  
**PROC19:** Manual activities involving hand contact

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**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC8d, ERC8a:** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor), Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-26-Widespread-use-by-professional-workers\\_Agrochemical-uses.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-26-Widespread-use-by-professional-workers_Agrochemical-uses.pdf)

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### Use: Use in de-icing and anti-icing fluids, Widespread use by professional workers

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Main User Groups : **SU22:** Professional uses  
Chemical product category : **PC4:** Anti-freeze and de-icing products

Process categories : **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  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC11:** Non-industrial spraying  
**PROC19:** Manual activities involving hand contact  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC8d:** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-27-Widespread-use-by-professional-workers\\_De-icing-and-anti-icing-applications.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-27-Widespread-use-by-professional-workers_De-icing-and-anti-icing-applications.pdf)

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### Use: Use in explosives, Widespread use by professional workers

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Main User Groups : **SU22:** Professional uses  
Chemical product category : **PC11:** Explosives

Process categories : **PROC1:** Chemical production or refinery in closed process

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without likelihood of 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  
**PROC5:** Mixing or blending in batch processes  
**PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities  
**PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities  
**PROC28:** Manual maintenance (cleaning and repair) of machinery

Environmental Release Categories : **ERC8d:** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-28-Widespread-use-by-professional-workers\\_Explosives-manufacture-and-use.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-28-Widespread-use-by-professional-workers_Explosives-manufacture-and-use.pdf)

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### Use: Consumer, Consumer use

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Main User Groups : **SU21:** Consumer uses  
Chemical product category : **PC1:** Adhesives, sealants  
**PC3:** Air care products  
**PC4:** Anti-freeze and de-icing products  
**PC8:** Biocidal products  
**PC9a:** Coatings and paints, thinners, paint removers  
**PC9b:** Fillers, putties, plasters, modelling clay  
**PC9c:** Finger paints  
**PC15:** Non-metal surface treatment products  
**PC16:** Heat transfer fluids  
**PC24:** Lubricants, greases, release products  
**PC27:** Plant protection products  
**PC29:** Pharmaceuticals  
**PC31:** Polishes and wax blends  
**PC35:** Washing and cleaning products  
**PC38:** Welding and soldering products, flux products  
**PC39:** Cosmetics, personal care products

Environmental Release Categories : **ERC8d, ERC8a:** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor), Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

Additional information available from:

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Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria  
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)



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[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-29-Consumer-use\\_Consumer-uses.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-29-Consumer-use_Consumer-uses.pdf)

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### Use: Production of foam-based objects, Service life - consumers

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Main User Groups : **SU21:** Consumer uses  
Chemical product category : **AC0:** Other

Environmental Release Categories : **ERC10a, ERC11a:** Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor)

Additional information available from:

[https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-30-Service-life-consumers\\_Articles-containing-foam.pdf](https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-30-Service-life-consumers_Articles-containing-foam.pdf)