

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

Acetone

Version 15.0

Revision Date: 30.12.2022

Date of last issue: 29.12.2020

Date of first issue: 19.01.2010

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

1.1 Product identifier

Trade name : Acetone, Borvida B™ Acetone
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

: Borealis UK Ltd
One St Peters Square, M2 3DE Manchester, United Kingdom
Telephone: +44 (0) 1625 537390

E-mail address : sds@borealisgroup.com

1.4 Emergency telephone number

+44 (0) 1235 239 670 (NCEC Carechem 24)
In an emergency, call NHS 111 or contact a doctor.

Borvida B is a trademark of the Borealis group.

Borealis AG | Trabrennstasse 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



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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 2

H225: Highly flammable liquid and vapour.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take precautionary measures against static discharge.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Storage:

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

P405 Store locked up.

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.

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) |
|---------------|----------------------|-----------------------|
| 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.
Seek medical advice immediately.

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- | | |
|-------------------------|---|
| 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
Water mist
Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Incomplete combustion may produce:
Carbon monoxide
Carbon dioxide (CO₂)
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.

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.

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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 / 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. |

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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

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 ³ | GB EH40 |
| | | STEL | 1.500 ppm 3.620 mg/m ³ | GB EH40 |
| acetone | 67-64-1 | TWA | 500 ppm 1.210 mg/m ³ | 2000/39/EC |
| Further information: Indicative | | | | |

Derived No Effect Level (DNEL):

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

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| | | | | |
|---------|-----------|--------------|----------------------------|------------------|
| acetone | Workers | Inhalation | Acute local effects | 2420 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 1210 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 186 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 200 mg/m3 |
| | 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):

| 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 |
| acetone | 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 |
| | Sewage treatment plant | 100 mg/l |

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.

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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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : colourless
- Odour : sweet, aromatic
- Odour Threshold : 19,8 ppm
- pH : 7
Concentration: 10 g/l
- Melting point : -94,7 °C
- Boiling point : 56 °C

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| | |
|--|---|
| Flash point | : -17 °C |
| Evaporation rate | : 2,0 (ether = 1) |
| Flammability (solid, gas) | : Highly flammable. |
| Upper explosion limit / Upper flammability limit | : 14,3 %(V) |
| Lower explosion limit / Lower flammability limit | : 2,5 %(V) |
| Vapour pressure | : 240 hPa (20 °C) 800 hPa (50 °C) |
| Relative vapour density | : 2,1 (20 °C) |
| Relative density | : 0,79 (20 °C) |
| Density | : 0,79 g/cm ³ |
| 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 |
| Auto-ignition temperature | : 465 °C |
| Decomposition temperature | : No data available |
| Viscosity | |
| Viscosity, dynamic | : 0,32 mPa.s (20 °C) |
| Explosive properties | : Not explosive |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |

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9.2 Other information

| | |
|----------------------------|----------------------------|
| Molecular weight | : 58,08 g/mol |
| Particle size | : Not applicable, (liquid) |
| Particle Size Distribution | : Not applicable, (liquid) |

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

10.6 Hazardous decomposition products

Carbon monoxide
Carbon dioxide (CO₂)

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

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

Components:

acetone:

Species : Guinea pig
Remarks : No skin irritation

Serious eye damage/eye irritation

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

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.

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Respiratory sensitisation

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

Components:

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 |

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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 ³ |

STOT - single exposure

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

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.

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

Chronic aquatic toxicity : 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

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| | | |
|--|---|--|
| 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 |
| 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

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.

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Components:

acetone:

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

12.4 Mobility in soil

Product:

Mobility : Remarks: Soil, High mobility

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 Other adverse effects

Product:

Endocrine disrupting potential : 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.

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

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

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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.

SECTION 14: Transport information

14.1 UN 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

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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

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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

Relevant EU provisions transposed through retained EU law

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

Other regulations:

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

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15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of other abbreviations

| | | |
|------------------|---|--|
| 2000/39/EC | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| GB EH40 | : | UK. EH40 WEL - Workplace Exposure Limits |
| 2000/39/EC / TWA | : | Limit Value - eight hours |
| GB EH40 / TWA | : | Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL | : | Short-term exposure limit (15-minute reference period) |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic

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Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

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

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| 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

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

| | |
|---------------------------|--|
| 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 |

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| | |
|----------------------------------|---|
| | 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 |
| 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-repackaging_distribution.pdf

Use: Use as an intermediate, Use at industrial sites

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

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| | |
|----------------------------------|---|
| 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: 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-3-Use-at-industrial-sites_Use-of-substance-as-intermediate-Z.pdf

Use: Use as an intermediate, Use at industrial sites

| | |
|---------------------------|--|
| 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 |

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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-4-Use-at-industrial-sites_Use-of-substance-as-intermediate-A.pdf

Use: Use as an intermediate, Use at industrial sites

| | |
|---------------------------|---|
| 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: 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 |

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machinery

Environmental Release Categories : **ERC6a:** 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

Use: Use as an intermediate, Use at industrial sites

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: 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

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Use: Solvents, Use at industrial sites

| | |
|----------------------------------|---|
| 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 (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

Use: Use in laboratories, Use at industrial sites

| | |
|--------------------|---|
| Main User Groups | : SU3: Industrial uses |
| Sectors of end-use | : SU8, SU9, SU24: Manufacture of bulk, large scale chemicals |

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| | |
|----------------------------------|---|
| Chemical product category | : (including petroleum products), Manufacture of fine chemicals, Scientific research and development 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 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

Use: Use in coatings, Use at industrial sites

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

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| | |
|----------------------------------|---|
| 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 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) |

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https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-9-Use-at-industrial-sites_Use-in-coatings_adhesives.pdf

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

| | |
|----------------------------------|--|
| 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

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

| | |
|----------------------------------|--|
| Main User Groups | : SU3: Industrial uses |
| Sectors of end-use | : SU11: Manufacture of rubber 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 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 PROC14: Tableting, compression, extrusion, pelettisation, granulation 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-11-Use-at-industrial-sites_Rubber-production-and-processing.pdf

Use: Use in polymer production, Use at industrial sites

| | |
|------------------|-------------------------------|
| Main User Groups | : SU3: Industrial uses |
|------------------|-------------------------------|

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| | |
|----------------------------------|---|
| 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 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

Use: Use in polymer processing, Use at industrial sites

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

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|----------------------------------|---|
| 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 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

Use: Use in cleaning agents, Use at industrial sites

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

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| | |
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| 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 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

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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

| | |
|----------------------------------|---|
| 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 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

Use: Use in blowing agents, Use at industrial sites

| | |
|------------------|-------------------------------|
| Main User Groups | : SU3: Industrial uses |
|------------------|-------------------------------|

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| | |
|----------------------------------|--|
| 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 (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

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

| | |
|----------------------------------|--|
| 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:

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https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-17-Service-life-consumers_Articles-containing-foam.pdf

Use: Use in mining chemicals, Use at industrial sites

| | |
|----------------------------------|---|
| 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 (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

Use: Use in laboratories, Widespread use by professional workers

| | |
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| Main User Groups | : SU22: Professional uses |
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| 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 |
| 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

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 |
| 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) |

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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

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

Main User Groups
Process categories

- : **SU22:** Professional uses
- : **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), Widespread use leading to inclusion into/onto article (outdoor), Widespread use leading to inclusion into/onto

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II

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

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

| | |
|----------------------------------|---|
| 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

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

| | |
|----------------------------------|---|
| 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

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

| | |
|--------------------|--|
| 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 |

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| Chemical product category | : (including petroleum products), Manufacture of fine chemicals 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 |
| 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

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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

| | |
|----------------------------------|---|
| 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 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>

Use: Use in agrochemicals, Widespread use by professional workers

| | |
|---------------------------|--|
| Main User Groups | : SU22: Professional uses |
| Sectors of end-use | : SU1: Agriculture, forestry, fishery |
| Chemical product category | : PC12: Fertilizers |

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| | |
|----------------------------------|---|
| | 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 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

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

| | |
|---------------------------|--|
| 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 |

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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

Use: Use in explosives, Widespread use by professional workers

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

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

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Use: Consumer, Consumer use

| | |
|----------------------------------|---|
| 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:

https://www.borealisgroup.com/storage/Base-Chemicals/Acetone/Exposure-Scenarios/ES-29-Consumer-use_Consumer-uses.pdf

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

| | |
|----------------------------------|--|
| 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) |

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