

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.11.2025

Version number 6 (replaces version 5)

Revision: 14.04.2025

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

- **1.1 Product identifier**
- **Creation date** 13.12.2012
- **Trade name:** Acetone
- **Chemical Identification:**
 - Propan-2-one
 - Propanone
 - 2-Oxopropane
 - 2-Propanone
 - beta-Ketopropane
 - Dimethyl ketone
 - Pyroacetic ether
- **Article number:** 0103
- **CAS Number:** 67-64-1
- **EC number:**
 - 200-662-2
- **Index number:**
 - 606-001-00-8
- **Registration number** 01-2119471330-49-XXXX
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Life cycle stages**
 - IS Use at industrial Sites
 - M Manufacture
 - F Formulation or re-packing
 - PW Widespread use by professional workers
- **Sector of Use**
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU9 Manufacture of fine chemicals
 - SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - SU24 Scientific research and development
- **Product category**
 - PC19 Intermediate
 - PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
 - PC21 Laboratory chemicals
- **Process category**
 - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
 - PROC4 Chemical production where opportunity for exposure arises
 - PROC5 Mixing or blending in batch processes
 - PROC6 Calendering operations
 - PROC7 Industrial spraying
 - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

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PROC10 Roller application or brushing

PROC12 Use of blowing agents in manufacture of foam

PROC14 Tableting, compression, extrusion, pelletisation, granulation

· Environmental release category

ERC1 Manufacture of the substance

ERC2 Formulation into mixture

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

ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

· Application of the substance / the mixture

Chemical for research, development, manufacturing, laboratory chemical for analysis.

· 1.3 Details of the supplier of the safety data sheet
· Manufacturer/Supplier:

Biosolve Chimie

20 Rue Roger Husson, 57260 Dieuze, France

Tel: +33 3 878 675 80/81/82/83/84/85

Email: info@biosolvechimie.com

Biosolve B.V.

Kerkhofstraat 21, 5554HG Valkenswaard, the Netherlands.

Tel: +31-(0)40-2071300

Fax: +31-(0)40-2048537

Email: info@biosolve-chemicals.com
· Further information obtainable from: Product safety department.
· 1.4 Emergency telephone number:

Contact list of appointed bodies for information relating to emergency health response, according to Art. 45(1) Reg. (EC) No 1272/2008.

See at <https://poisoncentres.echa.europa.eu/appointed-bodies>

Help desk: <http://echa.europa.eu/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks>.

For more information see section 16.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture
· Classification according to Regulation (EC) No 1272/2008


GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

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STOT SE 3 H336 May cause drowsiness or dizziness.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

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

· Hazard pictograms



GHS02 GHS07

· Signal word Danger

· Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

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

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Substances

· CAS No. Description

Acetone

· Identification number(s)

· EC number: 200-662-2

· Index number: 606-001-00-8

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

Acetone

IOELV Long-term value: 1210 mg/m³, 500 ppm

· DNELs

67-64-1

Workers Skin contact Long-term systemic effects 186mg/kg BW/d

Consumers Ingestion Long-term systemic effects 62mg/kg BW/d

Consumers Skin contact Long-term systemic effects 62mg/kg BW/d

Workers Inhalation Acute systemic effects 2420 mg/m³

Workers Inhalation Long-term systemic effects 1210 mg/m³

Consumers Inhalation Long-term systemic effects 200 mg/m³

· PNECs

67-64-1

Soil 33.3 mg/kg

Marine water 1.06 mg/l

Fresh water 10.6 mg/l

Marine sediment 3.04 mg/kg

Fresh water sediment 30.4 mg/kg

Onsite sewage treatment plant 100 mg/l

· Additional information: The lists valid during the making were used as basis.

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- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes.
 Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **Hand protection**
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Liquid
- **Colour:** Colourless
- **Odour:** Characteristic
- **Odour threshold:** No data available.
- **Melting point/freezing point:** -94.7 °C
- **Boiling point or initial boiling point and boiling range** 55.8-56.6 °C
- **Flammability** Highly flammable.
- **Lower and upper explosion limit**
- **Lower:** 2.6 Vol %
- **Upper:** 13 Vol %
- **Flash point:** <-18 °C
- **Auto-ignition temperature:** 465 °C

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· Decomposition temperature:	No data available
· pH	No data available
· Viscosity:	
· Dynamic at 20 °C:	32 mPas
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	No data available
· Vapour pressure at 20 °C:	233 hPa
· Vapour pressure at 50 °C:	800 hPa
· Density and/or relative density	
· Density at 20 °C:	0.79 g/cm ³
· Relative density	No data available
· Vapour density	No data available

· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	No data available
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Molecular weight	58.01 g/mol
· Change in condition	
· Evaporation rate	No data available

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void
· Molecular Weight	58.08

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Molecular Formula C₃H₆O

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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.

· LD/LC50 values relevant for classification:

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties** Substance is not listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
 - **European waste catalogue**
- | | |
|-----|---|
| HP3 | Flammable |
| HP4 | Irritant - skin irritation and eye damage |
| HP5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.
 - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN number or ID number**
 - **ADR, IMDG, IATA** UN1090
 - **14.2 UN proper shipping name**
 - **ADR** UN1090 ACETONE
 - **IMDG, IATA** ACETONE
 - **14.3 Transport hazard class(es)**
 - **ADR**
- 
- **Class** 3 (F1) Flammable liquids.

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· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-D
· Stowage Category	E
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

*

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

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- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40, 75
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS** (Upper limit value for the purpose of licensing under Article 5(3))
Substance is not listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is listed.
- **Regulation (EC) No 273/2004 on drug precursors** 3
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
3
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department

- **Contact:**

Austria Vergiftungsinformationszentrale (VIZ) (+43) 1 406 43 43

Belgium Centre Antipoisons (+32) 070 245 245

Antigifcentrum 070 245 245 (+32)

Bulgaria Национален токсикологичен информационен център

Многопрофилна болница за активно лечение и спешна медицина "Н.И.Пирогов" (+359) 2 9154 233

Croatia Centar za kontrolu otrovanja (+385) 01 2348 342

Cyprus Υπουργείο Εργασίας, Πρόνοιας και Κοινωνικών Ασφαλίσεων

Τμήμα Επιθεώρησης Εργασίας 1401

Czech Republic Toxikologické informační středisko (+420) 224 919 293, (+420) 224 915 402

Denmark Giftlinjen: +45 8212 1212

Estonia Terviseameti mürgistusteabekeskuse 16662, (+372) 7943 794

Finland Myrkytystietokeskus 0800 147 111, 09 471 977

France ORFILA (INRS) : + 33 (0)1 45 42 59 59

Centres Antipoison et de Toxicovigilance

ANGERS: 02 41 48 21 21

BORDEAUX: 05 56 96 40 80

LILLE: 0800 59 59 59

LYON: 04 72 11 69 11

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MARSEILLE: 04 91 75 25 25

NANCY: 03 83 22 50 50

PARIS: 01 40 05 48 48

STRASBOURG: 03 88 37 37 37

TOULOUSE: 05 61 77 74 47

Germany Giftnotruf der Charité, Berlin: 030/19240

Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord) :0551/19 240

Informationszentrale gegen Vergiftungen Zentrum für Kinderheilkunde Universitätsklinikum Bonn: 0228/19240

Giftnotruf Erfurt Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen: 0361/730 730

Informations- und Beratungszentrum für Vergiftungsfälle Klinik für Kinder- und Jugendmedizin Universitätsklinikum des Saarlandes: 06841/19240

Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen - Klinische Toxikologie - Universitätsmedizin der Johannes Gutenberg-Universität Mainz: 06131/19240

Vergiftungs-Informationen-Zentrale Zentrum für Kinder- und Jugendmedizin Universitätsklinikum: 0761/19240

Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik: 089/19240

Great Britain Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

Greece Κέντρο Δηλητηριάσεων (+30) 2107793777

Hungary Országos Kémiai Biztonsági Intézet (OKBI) +(36)-80-201-199

Iceland LANDSPÍTALI - THE NATIONAL UNIVERSITY HOSPITAL Tel. (+354) 543 1000

Ireland National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

Italy Istituto Superiore di Sanità (ISS) +390649906140

CAV "Ospedale Pediatrico Bambino Gesù" – Roma Tel. (+39) 06.6859.3726

CAV "Azienda Ospedaliera Università di Foggia" – Foggia Tel. 800.183.459

CAV "Azienda Ospedaliera A. Cardarelli" – Napoli Tel. (+39) 081.545.3333

CAV Policlinico "Umberto I" – Roma Tel. (+39) 06.4997.8000

CAV Policlinico "A. Gemelli" – Roma Tel. (+39) 06.305.4343

CAV Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica – Firenze Tel. (+39) 055.794.7819

CAV Centro Nazionale di Informazione Tossicologica – Pavia Tel. (+39) 0382.24.444

CAV Ospedale Niguarda – Milano Tel. (+39) 02.66.1010.29

CAV Azienda Ospedaliera Papa Giovanni XXIII – Bergamo Tel. 800.88.33.00

CAV Centro antiveleni Veneto – Verona Tel. 800.011.858

Latvia Latvijas Vides, ģeoloģijas un meteoroloģijas centrs (+371) 67032600

Lithuania Apsinuodijimų informacijos biuras +370 (5) 2362052

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Luxembourg Antigifcentrum / Centre antipoisons (+352) 8002 5500

The Netherlands Nationaal Vergiftigingen Informatie +31 (0)88 755 8000

Norway Giftinformasjonen 22 59 13 00

Poland Biuro do spraw Substancji Chemicznych +48 42 2538 400

Portugal Centro de informação antivenenos 800 250 250

Romania Institutul Național de Sănătate Publică +40213183606

Slovakia Národné toxikologické informačné centrum (NTIC) (+421) 2 5477 4166

Slovenia Urad Republike Slovenije za kemikalije +38614006051

Spain Instituto Nacional de Toxicología y Ciencias Forenses (INTCF) (+34) 91 562 04 20

Sweden Giftinformationscentralen (+46) 10 456 6700

Switzerland Tox Info Suisse 24-h-Notfallnummer: 145 (aus dem Ausland: +41 44 251 51 51) Auskunft: +41 44 251 66 66

· **Date of previous version:** 31.01.2024

· **Version number of previous version:** 5

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

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

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

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

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Annex: Exposure scenario

· Short title of the exposure scenario

· Sector of Use

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

SU9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU24 Scientific research and development

· Product category

PC19 Intermediate

PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

PC21 Laboratory chemicals

· Process category

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

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

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

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC6 Calendering operations

PROC7 Industrial spraying

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

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

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

PROC10 Roller application or brushing

PROC12 Use of blowing agents in manufacture of foam

PROC14 Tableting, compression, extrusion, pelletisation, granulation

· Environmental release category

ERC1 Manufacture of the substance

ERC2 Formulation into mixture

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

ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

· Notes

The product is not intended for industrial use.

The product is intended for professional use.

· Description of the activities / processes covered in the Exposure Scenario

67-64-1

1. Manufacturing and on-site use

Main User Groups : SU 3

Sectors of end-use : SU 3, SU9

Chemical product category : PC19

Process categories : PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

Environmental Release Categories : ERC1

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2. Formulation of preparations

Main User Groups : SU 3

Sectors of end-use : SU 10

Process categories : PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC15

Environmental Release Categories : ERC2

3. Used as laboratory reagent

Main User Groups : SU 22

Sectors of end-use : SU 3, SU 22, SU24

Chemical product category : PC21

Process categories : PROC10, PROC15

Environmental Release Categories : ERC4, ERC8a

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

Main User Groups : SU 3

Sectors of end-use : SU 3, SU9

Chemical product category : PC20, PC21

Process categories : PROC3, PROC4, PROC5, PROC6, PROC7, PROC8b, PROC9, PROC10, PROC13, PROC15

Environmental Release Categories : ERC4, ERC6b, ERC1

• **Conditions of use** Customary application according to section 1.

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

• **Worker**

Application duration : > 4 h

Frequency of use : 220 days/year

• **Environment**

Indoor use

The product must not be released into the environment.

• **Physical parameters** See section 9 to the Safety Data Sheet.

• **Physical state** Fluid

• **Concentration of the substance in the mixture**

Raw material.

Covers the percentage of the substance in the product up to 100 %.

• **Used amount per time or activity** Covers the percentage of the substance in the product up to 100 %

• **Other operational conditions** Observe the general safety regulations when handling chemicals.

• **Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

• **Other operational conditions affecting worker exposure**

Avoid contact with eyes.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Do not breathe gas/fume/vapour/aerosol.

Keep container tightly closed and in a well-ventilated place.

Indoor application.

• **Other operational conditions affecting consumer exposure** No special measures required.

• **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.

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- **Risk management measures**
- **Worker protection** Observe section 7.1 and 8.1-8.2 of the Safety Data Sheet
- **Organisational protective measures**
 - Keep good industrial hygiene.
 - Deploy only trained chemical workers.
 - Provide Internal Plant Instruction.
 - Keep away from food, beverages and animal feed.
 - Provide washing facilities in the workplace.
 - Consider section 4 of the Safety Data Sheet (First aid measures).
 - Washing facilities / Water for cleaning eyes and skin should be available.
- **Technical protective measures**
 - Provide explosion-proof electrical equipment.
 - Keep away from heat and direct sunlight.
 - Ensure that suitable extractors are available on processing machines
 - Store in cool, dry place in tightly closed receptacles.
- **Personal protective measures**
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes.
 - Tightly sealed goggles
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Measures for consumer protection** Ensure adequate labelling.
- **Environmental protection measures**
 - Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.
- **Water**
 - Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.
- **Soil** Prevent contamination of soil.
- **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.
- **Disposal measures**
 - Disposal must be made according to official regulations.
 - Ensure that waste is collected and contained.
- **Disposal procedures**
 - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Worker (dermal)**
 - 67-64-1 Without Local exhaust ventilation

PROC1 0.03 mg/kg BW/d
 PROC2 0.03 mg/kg BW/d
 PROC3 0.69 mg/kg BW/d
 PROC4 6.86 mg/kg BW/d
 PROC5 13.71 mg/kg BW/d
 PROC6 27.43 mg/kg BW/d

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PROC7 42.86 mg/kg BW/d
PROC8a 13.71 mg/kg BW/d
PROC8b 13.71 mg/kg BW/d
PROC9 6.86 mg/kg BW/d
PROC10 27.43 mg/kg BW/d
PROC13 13.71 mg/kg BW/d
PROC15 0.34 mg/kg BW/d
The calculated value is smaller than the DNEL.

Risk Characterization ratio <1

· **Worker (inhalation)**

67-64-1 Without local wxhaust ventilation

PROC1 0.02 mg/m³
PROC2 0.02 mg/m³
PROC3 84.58 mg/m³
PROC4 169.17 mg/m³
PROC5 422.92 mg/m³
PROC6 422.92 mg/m³
PROC7 845.83 mg/m³
PROC8a 422.92 mg/m³
PROC8b 253.75 mg/m³
PROC9 338.33 mg/m³
PROC10 422.92 mg/m³
PROC13 422.92 mg/m³
PROC15 84.58 mg/m³

The calculated value is smaller than the DNEL.

Risk Characterization ratio <1

· **Environment**

A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterization is not necessary (REACH Annex I section 5.0).

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

· **Guidance for downstream users**

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).