

Safety data sheet

according to Directive (EC) no. 1907/2006 (REACH) and
Directive (EU) no. 830/2015



Commercial name: Solvent mixture

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1. Designation of the substance or mixture and the company

1.1 Product identifier

Commercial name: Solvent mixture

Item number: 2341107

Type: 508

1.2 Relevant identified uses of the substance or mixture and uses we would not recommend

Identified use

Thinner/cleaning agent

Uses we would not recommend

No other relevant information available.

1.3 Details on the supplier providing the safety data sheet

Manufacturer/supplier

OBO Bettermann Holding GmbH & Co. KG

Hüingser Ring 52

58710 Menden

Germany

Division providing information

Customer Service Germany

Tel.: +49 (0)2371 7899-2000

E-mail: info@obo.de

1.4 Emergency telephone number

REACH Registration of Chemicals GmbH

Tel.: +49 (0)700 2411 2112 (OBO)

Tel.: +1 872 5888271 (OBO)

2. Possible risks

2.1 Categorisation of substance or mixture

Categorisation according to Directive (EU) no. 1272/2008

Flam. Liq. 2	H225	Liquid and vapour highly flammable.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	Can cause drowsiness and dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters the airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long-lasting effects.

2.2 Labelling elements

Labelling according to Directive (EU) No. 1272/2008

The product is classified and labelled according to the CLP directive.

Hazard pictograms



GHS02 GHS07 GHS08 GHS09

Signal word

Danger

Hazardous components for labelling

Naphtha, C6-C7, Cyclika and Isoalkane

Naphtha, C6, branched

Ethyl acetate

Risk information

H225	Liquid and vapour highly flammable.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	Can cause drowsiness and dizziness.
H304	May be fatal if swallowed and enters the airways.
H411	Toxic to aquatic life with long-lasting effects.

Safety information

P301+P310	IF SWALLOWED: Call a POISON CENTRE or a doctor.
P331	Do NOT induce vomiting.
P303+P361+P353:	IF ON SKIN (or hair): Take off all contaminated clothing immediately. Rinse skin with water (or shower)
P305+P351+P338	IN CASE OF CONTACT WITH THE EYES: Rinse cautiously with water for several minutes. Remove any contact lenses where possible. Continue rinsing.
P362+P364	Take off contaminated clothing. Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

2.3 Other risks

With large-scale working of the product in the wider environment and in underground floor spaces, eliminate ignition sources such as welding devices, door bells, hot plates, refrigerators, night storage heaters, etc.! Position warning signs to warn of the potentially explosive atmosphere!

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: N/A.

3. Composition/details of component parts

3.1 -

3.2 Chemical characteristics: Mixture

Description: Solvent mixture.

Hazardous contents

CAS: 141-78-6 EINECS: 205-500-4 Reg.no.: 01-2119475103-46-0000	Ethyl acetate	25 ≤ 50%
	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
EC number: 921-024-6 Reg.no.: 01-2119475514-35-0000	Naphtha, C6-C7, Cyclika and Isoalkane Consisting of: 110-82-7 Cyclohexane (10%); 110-54-3 n-hexane (0 ≤ 5%)	25 ≤ 50%
	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	
EC number: 931-254-9 Reg.no.: 01-2119484651-34-0000	Hydrocarbons, C6 isoalkanes, < 5% n-hexane	10 ≤ 25%
	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 67-64-1 EINECS: 200-662-2 Reg.no.: 01-2119471330-49-0000	Acetone	10 ≤ 25%
	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	

Add. notes

The actual text of the listed hazard information can be found in Section 16.

4. First aid measures**4.1 Description of the first aid measures****General information:**

Remove articles of clothing soiled with the product immediately.

Move affected people into the fresh air.

After inhalation: Fresh air, seek medical attention should symptoms persist.

After skin contact: The product is not generally an irritant.

After eye contact: With the eyelids open, rinse eyes under running water for several minutes. If feeling unwell for longer periods of time, consult a doctor.

After ingestion: Prevent vomiting and obtain medical assistance immediately.

4.2 Most important acute and delayed symptoms and effects

No other relevant information available.

4.3 Information for immediate medical aid or special treatment

No other relevant information available.

5. Fire protection measures**5.1 Extinguishing media****Suitable extinguishing agent:**

CO₂, extinguishing powder or spray water jet. Fight larger fires with an alcohol-resistant foam.

Agree fire extinguishing measures to the environment.

Water mist

Foam

Extinguishing powder

Carbon dioxide

Unsuitable extinguishing agents for safety reasons:

Full jet of water.

5.2 Special hazards arising from the substance or mixture

If there is a fire, the following may be released:

Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Special protective equipment: Do not inhale explosion and combustion gases.

Additional data

Collect contaminated extinguishing water separately, do not let it flow into the sewage system.

Fire residues and contaminated extinguishing water must be disposed of according to the statutory regulations.

6. Measures in the case of unintentional release

6.1 Personal precautions, protective equipment and emergency procedures

Use breathing protection if there is a risk of vapours/dust/aerosols.

Ensure sufficient ventilation.

Keep away from sources of ignition.

Wear personal protective clothing.

6.2 Environmental protection measures:

Do not let the product enter the sewerage system/surface water/groundwater.

Inform responsible authorities on entry into waterways or sewer system.

6.3 Methods and material for retention and cleaning:

Dispose of contaminated material as waste in accordance with Section 13.

Collect the product with liquid-binding material (e.g. sand, diatomaceous earth, acid binder, universal binder).

Ensure sufficient ventilation.

Recycle or dispose of in suitable containers.

Do not use any tools that can cause ignition.

6.4 Reference to other sections

For information on safe handling, see Section 7.

For information on personal protective equipment, see Section 8.

For disposal information, see Section 13.

7. Handling and storage

7.1 Protective measures for safe handling

Store in a cool and dry place in tightly closed containers.

Observe the emission limit.

Use devices resistant to solvents.

Keep out of reach of children.

Information on fire and explosion protection:



Keep away from sources of ignition – do not smoke.

Take measures against electrostatic charging.

During processing, volatile, combustible components are released.

Vapours can form a potentially explosive mixture with air.

Combustible mixtures can form in the empty container.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements for storage rooms and containers: Reliably prevent penetration into the ground.

Joint storage information: Store separately from foods.

Additional information on storage conditions:

Keep the containers closed tightly.

Protect against heat and direct sunlight.

Store in a cool and dry place in tightly closed original containers.

Storage class: 3

Classification according to operating safety directive (BetRSichV): Easily flammable

7.3 Specific end applications:

No other relevant information available.

8. Limitation and monitoring of the exposure/personal protective equipment

Additional information on the design of technical systems

No further data, see Section 7.

8.1 Parameters to be monitored

Components with workplace-related limit values to be monitored

Components with workplace-related limit values to be monitored:	
141-78-6 Ethyl acetate	
WLV	Long-term exposure value: 730 mg/m ³ , 200 ml/m ³ 2(I);DFG, EU, Y
Naphtha, C6-C7, Cyclika and Isoalkane	
AWG	Long-term exposure value: 1,000 mg/m ³ TRGS 900 (RCP Method)
Hydrocarbons, C6 isoalkanes, <5% n-hexane	
MAKMAK	cf. Sect. Xb
67-64-1 Acetone	
WLV	Long-term exposure value: 1,200 mg/m ³ , 500 ml/m ³ 2(I);AGS, DFG, EU, Y

DNEL values

Ethylacetate, CAS 141-78-6 (employees)

Dermal, long-term (chronic) systemic: 63 mg/kg/day

Inhalative, short-term (acute) systemic: 1468 mg/m³

Inhalative, long-term (chronic) local: 734 mg/m³

Inhalative, short-term (acute) local: 1468 mg/m³

Inhalative, long-term (chronic) systemic: 734 mg/m³

Acetone, CAS 67-64-1

Dermal, long-term (chronic) systemic: 186 mg/kg/day

Inhalative, short-term (acute) local: 2,420 mg/m³

Inhalative, short-term (acute) systemic: 1210 mg/m³

PNEC values

Ethyl acetate CAS 141-78-6

Fresh water: 0.26 mg/l

Marine water: 0.026 mg/l

Water, Aqua intermittent: 1.65 mg/l

Fresh water, sediment: 1.25 mg/kg

Marine water sediment: 0.125 mg/kg

Soil - : 0.24 mg/kg

Sewage plant (STP) -: 650 mg/l
 Secondary toxicity – 200 mg/kg
 Acetone, CAS 67-64-1
 Fresh water: 10.6 mg/l
 Marine water: 1.06 mg/l
 Water, Aqua intermittent: 21 mg/l
 Fresh water, sediment: 30.4 mg/kg
 Marine water sediment: 3.04 mg/kg
 Soil - : 29.5 mg/kg
 Sewage plant (STP) -: 100 mg/l

Components with biological limit values

67-64-1 Acetone	
CLV	80 mg/l Specimen: Urine Sample collection period: End of exposure or end of shift Parameter: Acetone

Additional information: The basis was the lists compiled during creation.

8.2 Limitation and monitoring of exposure

Personal protective equipment

General protection and hygiene measures

Observe the normal precautionary measures for handling chemicals.
 Keep away from food, drinks and feed.
 Take off soiled, saturated clothing immediately.
 Wash your hands before breaks and after completing work.
 Do not inhale the gases/vapours/aerosols.
 Avoid contact with the eyes and skin.

Breathing protection: If there is insufficient ventilation, wear breathing protection.

Recommended filter device for short-term use: Combination filter A-P2

Hand protection:

Gloves/solvent-resistant.



Chemical-resistant protective gloves (EN 374)

The selection of the glove material must include observance of the penetration times, permeation rates and degradation.

Glove material

Recommended material thickness: ≥ 1 mm

The selection of a suitable glove is not only dependent on the material, but on other quality characteristics, and differs from manufacturer to manufacturer. As the product is a combination of multiple substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Penetration time of the glove material

The data is based on details in literature and information from glove manufacturers.

Contact the protective glove manufacturer for the exact penetration time, which must be complied with.

Eye protection:



Protective glasses with side protection (frame glasses) (EN 166)

Body protection: Protective work clothing (EN 340).

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General data

Appearance:

Form: Liquid

Colour: Colourless

Odour: Characteristic

Odour threshold: Not determined

pH value: Not determined.

Change of state

Melting point/freezing point: Not determined

Start of boiling and boiling range: 63 °C (DIN 53171)

Ignition point: -26 °C (DIN 53213)

Flammability (solid, gaseous): N/A.

Decomposition temperature: Not determined.

Self-ignition temperature: This product does not self-ignite.

Explosive properties: The product poses no risk of explosion, but the formation of explosive vapour/air mixtures is possible.

Explosion limits:

Lower: 0.7 Vol % (EN 1839)

Upper: 11.5 Vol % (EN 1839)

Vapour pressure at 20 °C: 105 hPa (DIN 51640)

Density at 20 °C: 0.78 g/cm³ (DIN 51757)

Relative density: Not determined.

Vapour density: Not determined

Vaporisation speed: Not determined.

Solubility/mixability in

water: Cannot or can scarcely be mixed.

Distribution coefficient: n-octanol/water: Not determined

Viscosity:

Dynamic: Not determined.

Kinematic: Undetermined.

Solvent content:

Organic solvents: 100.0%

9.2 Other data

No other relevant information available.

10. Stability and reactivity

10.1 Reactivity

No other relevant information available.

10.2 Chemical stability

Thermal decomposition/conditions to be avoided:

No decomposition if used correctly.

10.3 Possibility of hazardous reactions

Development of easily flammable gases/vapours.

10.4 Conditions to avoid

No other relevant information available.

10.5 Incompatible materials:

No other relevant information available.

10.6 Hazardous decomposition products:

Traces possible.

11. Toxicological data**11.1 Data on toxicological effects****Acute toxicity**

On the basis of the available data, the classification criteria are not fulfilled.

Categorisation-relevant LD/LC50 values		
141-78-6 Ethyl acetate		
Oral	LD50	5,620 mg/kg (rat)
	LDLo	100 mg/kg (-)
Inhalative	LC50/4 h	22.5 mg/l (rat)
Naphtha, C6-C7, Cyclika and Isoalkane		
Oral	LD50	12,705 mg/kg (rat)
67-64-1 Acetone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rbt)
Inhalative	LC50/4 h	76 mg/l (rat)

Primary irritant effect:

Corrosive/irritating to the skin

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Sensitisation of the airways/skin

On the basis of the available data, the classification criteria are not fulfilled.

CMS impacts (carcinogenic, DNA-modifying and reproductive system impact)**Germ cell mutagenicity** On the basis of the available data, the classification criteria are not fulfilled.**Carcinogenicity** On the basis of the available data, the classification criteria are not fulfilled.**Reproductive toxicity** On the basis of the available data, the classification criteria are not fulfilled.**Specific target organ toxicity with single exposure**

Can cause drowsiness and dizziness.

Specific target organ toxicity with repeated exposure

On the basis of the available data, the classification criteria are not fulfilled.

Aspiration risk

May be fatal if swallowed and enters the airways.

12. Environmental data**12.1 Toxicity****Aquatic toxicity****141-78-6 Ethyl acetate**

EC50/72h	mg/l (rat) mg/l (rbt)
LC50/96h	230 mg/l (Pimephales promelas (frogspawn))
IC50/48h	3,300 mg/l (Desmodesmus subspicatus (green algae))
EC50/48h	717 mg/l (Daphnia magna (large water flea))

67-64-1 Acetone

LC50/96h	8,300 mg/l (Lepomis macrochirus (sunfish))
EC50/48h	12,600–12,700 mg/l (Daphnia magna (large water flea))

12.2 Persistence and degradability**141-78-6 Ethyl acetate**

Biodegr. / 28d	100% (-)
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67-64-1 Acetone

Biodegr. / 28d	91% (-)
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12.3 Bioaccumulation potential

No other relevant information available.

12.4 Mobility in soil

No other relevant information available.

Ecotoxic impacts:

Note: Toxic to fish.

Additional ecological information: -**General information:**

Water hazard class: 2 (self-categorisation): Very hazardous to water

Do not let the product enter the groundwater, the waterways or the sewerage system.

Hazardous to drinking water, even when small quantities escape into the soil.

In waterways, also toxic to fish and plankton.

Toxic to aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: N/A.

12.6 Other adverse effects

No other relevant information available.

13. Disposal information**13.1 Waste treatment method****Recommendation:**

May not be disposed of together with domestic waste. Do not let enter the sewerage system.

Must be added to special treatment according to the local authority requirements.

European Waste Catalogue

- 14 00 00 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08)
- 14 06 00 Waste organic solvents, refrigerants and foam/aerosol propellants
- 14 06 03* Other solvents and solvent mixtures

Uncleaned packaging:

Recommendation: Disposal according to official regulations.

14. Transport information

14.1 UN number

ADR, IMDG, IATA UN1993

14.2 Current UN shipment designation

ADR 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, HEPTANES), DANGEROUS TO ENVIRONMENT
 IMDG FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, HEPTANES), MARINE POLLUTANT
 IATA FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, HEPTANES)

14.3 Transport hazard classes

ADR, IMDG



Class 3 Flammable liquid substances
 Hazard label 3

IATA



Class 3 Flammable liquid substances
 Label 3

14.4 Packaging group

ADR, IMDG, IATA II

14.5 Environmental hazards:

The product contains environmentally hazardous substances: Hydrocarbons, C7, isoalkanes

Marine pollutant: Yes

Symbol (fish and tree)

Special labelling (ADR): Symbol (fish and tree)

14.6 Special precautionary measures for the user

Caution: Flammable liquid substances

Number to designation the danger (Kemler number): 33

EMS number: F-E,S-E

Stowage Category B

14.7 Mass good transportation according to Appendix II of the MARPOL agreement and according to the IBC code

N/A.

Transport/additional information:**ADR**

Limited quantity (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 limitation code D/E	

IMDG

Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": 1993 FLAMMABLE LIQUID, N.O.S.
(ETHYL ACETATE, HEPTANES), 3, II, DANGEROUS TO ENVIRONMENT

15. Legal specification**15.1 Specifications regarding safety, health and environmental protection/specific legal specifications for the substance or the mixture****Directive 2012/18/EU**

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

National specifications:**Technical instructions on air:**

Class : NK

Ratio in %: 50–100

Water hazard class: WGK 2 (self-categorisation): Very hazardous to water

VOC (EU) % 100.00%

MAL Code 5-3

VOC(EU) 780,0 g/l

Other regulations, limitations and prohibitive regulations

This product is regulated by Regulation (EC) No. 2019/1148: All suspicious transactions as well as the loss and theft of significant quantities must be reported to the responsible national contact point. The requirements of this regulation must be observed when reselling.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has been carried out.

16. Other data

This data is provided according to our latest knowledge, but does not provide any guarantee of product properties and does not provide any legal guarantee.

Relevant statements

H225	Liquid and vapour highly flammable.
H304	May be fatal if swallowed and enters the airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	Can cause drowsiness and dizziness.
H411	Toxic to aquatic life with long-lasting effects.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin irritant/corrosive effect – Category 2
Eye Irrit. 2: Serious eye damage/irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration risk – Category 1
Aquatic Chronic 2: Hazardous to water – long-term hazard to water – Category 2

Appendix: Exposure scenario 1

Short designation of the exposure scenario

ETHYL ACETATE (CAS141-78-6)
INDUSTRIAL USE IN RIGID FOAM, COATINGS, ADHESIVES AND SEALANTS

Use sector

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

Product category PC1 Adhesives, sealants

Process category

PROC1 Use in closed process, no likelihood of exposure
PROC2 Use in closed, continuous process with occasional controlled exposure (e.g. sampling)
PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC10 Roller application or brushing
PROC13 Treatment of articles by dipping and pouring

Environmental release category

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

Description of the activities/methods taken into account in the exposure period

See Section 1 in the Annex to the safety data sheet.

Conditions of use

Standard industrial use according to Section 1.

Length and frequency

8 hrs (whole shift)
5 working days per week.

Physical parameters

Physical state Liquid

Concentration of the substance in the mixture The substance is the main component.

Quantity used per period or activity 5,500 tonnes per year

Other conditions of use

Other conditions of use with influence on the environmental exposure

No special measures required.

Other conditions of use with influence on the employee exposure

Avoid contact with the eyes and skin.
Take measures against electrostatic charging.
Keep away from sources of ignition – do not smoke.

Other conditions of use with influence on the consumer exposure

Keep out of reach of children.

Other conditions of use with influence on the consumer exposure during the period of use of the product

N/A

Risk management measures

Employee protection

Ensure sufficient ventilation.
Do not inhale the gases/vapours/aerosols.

Organisational protection measures Ensure good industrial hygiene.

Technical protection measures

Use explosion-protected electrical system parts.
Keep the containers closed tightly.
Ensure suitable suction on the working machines.

Personal protection measures

Protective work clothing (EN 340).
Do not inhale the gases/vapours/aerosols.
Avoid contact with the eyes.
Tightly closed protective glasses.
Chemical-resistant protective gloves (EN 374)

Consumer protection measures

Ensure sufficient labelling.
Store locked up and out of reach of children.

Environmental protection measures

Water No special measures required.

Disposal measures Ensure that waste is collected and retained.

Disposal method May not be disposed of together with domestic waste. Do not let enter the sewerage system.

Type of waste Partially emptied and uncleaned container

Exposure prognosis

Employee (dermal) The calculated value is smaller than the DNEL.

Employee (inhalation) The calculated value is smaller than the DNEL.

Environment The calculated value is smaller than the DNEL.

Consumers Not relevant for this exposure scenario.

Guidelines for later users

Specialist evaluation can be used to determine whether a later user uses the substance/the mixture in the context of the exposure scenario

Appendix: Exposure scenario 2

Short designation of the exposure scenario

ACETONE (CAS 67-64-1)

Industrial use of coatings and adhesives

Use sector

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

Product category PC1 Adhesives, sealants

Process category

- PROC1 Use in closed process, no likelihood of exposure
- PROC2 Use in closed, continuous process with occasional controlled exposure (e.g. sampling)
- PROC3 Use in closed batch process (synthesis or formulation)
- PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
- PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
- PROC7 Industrial spraying
- PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
- PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
- PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
- PROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisation
- PROC15 Use as a laboratory reagent

Environmental release category

ERC3 Formulation in materials

Description of the activities/methods taken into account in the exposure period

See Section 1 in the Annex to the safety data sheet.

Conditions of use

Standard industrial use according to Section 1.

Length and frequency 5 working days per week.

Physical parameters

The data on the physical and chemical properties in the exposure scenario are based on the properties of the preparation.

Physical state Liquid

Concentration of the substance in the mixture Pure substance.

Other conditions of use

Observe the normal precautionary measures for handling chemicals.

Other conditions of use with influence on the environmental exposure

No special measures required.

Other conditions of use with influence on the employee exposure

Avoid contact with the eyes:
Take measures against electrostatic charging.
Keep away from sources of ignition – do not smoke.

Other conditions of use with influence on the consumer exposure

Keep out of reach of children.

Other conditions of use with influence on the consumer exposure during the period of use of the product

N/A

Risk management measures

Employee protection

Organisational protection measures No special measures required.

Technical protection measures

Use explosion-protected electrical system parts.
Ensure suitable suction on the working machines.

Personal protection measures

Do not inhale the gases/vapours/aerosols.
Avoid contact with the eyes.
Tightly closed protective glasses.
Chemical-resistant protective gloves (EN 374)

Consumer protection measures

Ensure sufficient labelling.
Store locked up and out of reach of children.

Environmental protection measures

Water No special measures required.

Disposal measures Disposal according to official regulations.

Disposal method May not be disposed of together with domestic waste. Do not let enter the sewerage system.

Type of waste Partially emptied and uncleaned container

Exposure prognosis

Consumers Not relevant for this exposure scenario.