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## Safety data sheet

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

Printing date 16.05.2024

Version number 1.7 (replaces version 1.6)

Revision: 16.05.2024

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

#### · 1.1 Product identifier

#### · Trade name: Spiritus

· UFI: S7Q3-E01T-0001-J3W4

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Technical function soldering
- · Application of the substance / the mixture Thinner, Diluent

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

• Manufacturer/Supplier: Stannol GmbH & Co. KG Haberstrasse 24 D-42551 Velbert

+49 (0) 2051 3120 332 sdb@stannol.de

· Further information obtainable from: Product Safety Department

· 1.4 Emergency telephone number: 8:00 am - 5:00 pm (CET) +49 (0) 2051 3120 332

#### **SECTION 2: Hazards identification**

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

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

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



· Signal word Danger

## · Hazard statements

H225 Highly flammable liquid and vapour.

#### · Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

### · Determination of endocrine-disrupting properties

CAS: 78-93-3 butanone

**SECTION 3: Composition/information on ingredients** 

#### · 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

## · Dangerous components:

CAS: 64-17-5 ethanol EINECS: 200-578-6 Index number: 603-002-00-5 Flam. Liq. 2, H225 Eye Irrit. 2, H319 List II

80 - 100%



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≤ 1%

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CAS: 78-93-3 butanone Flam. Liq. 2, H225 EINECS: 201-159-0 Eye Irrit. 2, H319; STOT SE 3, H336 Index number: 606-002-00-3 EUH066 • Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **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.

- 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.
- Additional information ERI-Card 3-09

#### **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

- Wear protective clothing. 6.2 Environmental precautions:
- Dilute with plenty of water

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).

Dispose contaminated material as waste according to section 13. 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.

### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling No special precautions are necessary if used correctly.

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.



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Store in cool, dry conditions in well sealed receptacles. · Storage class: 3

· 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:

#### CAS: 78-93-3 butanone

IOELV Short-term value: 900 mg/m<sup>3</sup>, 300 ppm Long-term value: 600 mg/m<sup>3</sup>, 200 ppm

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

#### · 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: Wash hands before breaks and at the end of work.

#### **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A

#### Hand protection



Protective gloves

Solvent resistant gloves

Rubber gloves

Synthetic rubber gloves

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

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

#### Material of gloves

#### Nitrile rubber, NBR

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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 Safety glasses

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

· General Information	
· Physical state	Fluid
· Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	-114.5 °C



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Boiling point or initial boiling point and boiling ran	<b>ge</b> 78 °C
Flammability	Highly flammable.
Lower and upper explosion limit	5 7
Lower:	3.5 Vol %
Upper:	15 Vol %
Flash point:	12 °C
Auto-ignition temperature:	425 °C
Decomposition temperature:	Not determined.
pH Hq	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water at 20 °C:	1 g/l
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	59 hPa
Vapour pressure at 50 °C:	280 hPa
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health a	na
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive
Colvert content.	air/vapour mixtures are possible.
Solvent content:	100.0.9/
Organic solvents: VOC (EC)	100.0 %
Solids content:	100.00 %
	0.0 %
Change in condition	Net determined
Evaporation rate	Not determined.
Information with regard to physical hazard classes	i
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



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· Desensitised explosives

Void

## **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:

CAS: 64-17-5 ethanol

Oral LD50 7,060 mg/kg (rat)

Inhalative LC50/4 h 20,000 mg/l (rat)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · 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 Based on available data, the classification criteria are not met.
- · 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

CAS: 78-93-3 butanone

#### **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.
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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List II

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#### 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

### · Uncleaned packaging:

• **Recommendation:** Packagings that may not be cleansed are to be disposed of in the same manner as the product. • **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	UN1170	
· 14.2 UN proper shipping name · ADR · IMDG · IATA	1170 ETHANOL (ETHYL ALCOHOL) solution ETHANOL (ETHYL ALCOHOL) solution ETHANOL solution	
· 14.3 Transport hazard class(es)		
· ADR, IMDG, IATA		
· Class · Label	3 Flammable liquids. 3	
· 14.4 Packing group · ADR, IMDG, IATA	II	
· 14.5 Environmental hazards:	Not applicable.	
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids. 33 F-E,S-D A	
• 14.7 Maritime transport in bulk according to IMO instruments Not applicable.		
· Transport/Additional information:		
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 D/E	
· IMDG · Limited quantities (LQ)	1L	(Contd on page 7)

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<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1170 ETHANOL (ETHYL ALCOHOL) SOLUTION, 3, II

## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



## · Signal word Danger

· Hazard statements

H225 Highly flammable liquid and vapour.

#### **Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P280
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · Directive 2012/18/EU

- Named dangerous substances ANNEX I None of the ingredients is 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
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

• Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

CAS: 78-93-3 butanone

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors 3

CAS: 78-93-3 butanone

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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.

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#### · Relevant phrases

Highly flammable liquid and vapour. H225

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

· Department issuing SDS: Product Safety Department

· Contact: Hr. Dörr

Date of previous version: 16.05.2024

· Version number of previous version: 1.6

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 ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) 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

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