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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 2.6 (replaces version 2.5)

Revision: 25.01.2023

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

- · 1.1 Product identifier
- · Trade name: Flux 900-3351
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Technical function soldering
- Application of the substance / the mixture Soldering flux
- 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

National Poisons Information Service +44 121 507 4123

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

## **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.

Eye Dam. 1 H318 Causes serious eye damage.

## · 2.2 Label elements

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

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



· Signal word Danger

		ng components of labelling:				
	ethyl (S)-2-hydroxy	/propionate				
	2-phenoxyethanol					
	succinic acid					
	· Hazard statements					
	H225 Highly flammable liquid and vapour.					
	H318 Causes serious eye damage.					
· 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 / eye protection.				
	P280	Wear protective clothing.				
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and				
		easy to do. Continue rinsing.				
	P310	Immediately call a doctor.				

P403+P235 Store in a well-ventilated place. Keep cool.



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respiratory tr suction is rec After working Keep out of t	els: vapors released during the soldering process should be avoided. F ract, and can lead to allergic reactions (asthma) after prolonged or commended. g with the product and before eating, drinking or smoking, wash you the reach of children. PBT and vPvB assessment plicable.	Flux vapors irritate the nose, throat, and repeated contact. Therefore, an active			
SECTION 3:	SECTION 3: Composition/information on ingredients				
	Mixture of substances listed below with nonhazardous additions.				
•	components:				
CAS: 64-17- EINECS: 200	5 ethanol 0-578-6 Flam. Liq. 2, H225 Eye Irrit. 2, H319	60 - 95%			
CAS: 687-47 EINECS: 211	7-8 ethyl (S)-2-hydroxypropionate 1-694-1 Flam. Liq. 3, H226 Eye Dam. 1, H318 STOT SE 3, H335	≤ 2.5%			
CAS: 122-99 EINECS: 204		≤ 2.5%			
CAS: 110-15 EINECS: 203	5-6 succinic acid 3-740-4 Eye Dam. 1, H318	≤ 1%			
<b></b>					

Aquatic Chronic 3, H412

Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

CAS: 95-14-7

EINECS: 202-394-1

## · 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. Then consult a doctor.

· After swallowing: If symptoms persist consult doctor.

benzotriazole

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.

· For safety reasons unsuitable extinguishing agents: Water with full jet

· 5.2 Special hazards arising from the substance or mixture No further relevant information available.

≤ 1%



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· 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 Ensure adequate ventilation

Wear protective clothing.

· 6.2 Environmental precautions: 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). Use neutralising agent.

Dispose contaminated material as waste according to item 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.

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: 64-17-5 ethanol

WEL (Great Britain) Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

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

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 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 necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

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## · 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**

<ul> <li>9.1 Information on basic physical and chemical pro</li> <li>General Information</li> </ul>	perties
· Physical state	Fluid
· Colour:	Clear
· Odour:	Characteristic
Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	<b>ie</b> 78 °C
·Flammability	, Highly flammable.
· Lower and upper explosion limit	0.1
· Lower:	3.5 Vol %
· Upper:	15.0 Vol %
Flash point:	14 °C
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	Not determined.
· Vapour pressure:	Not determined.
<ul> <li>Density and/or relative density</li> </ul>	
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.

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(Contd. of page 4) · 9.2 Other information · Appearance: · Form: Fluid · Important information on protection of health and environment, and on safety. • Auto-ignition temperature: Product is not selfigniting. Product is not explosive. However, formation of explosive · Explosive properties: air/vapour mixtures are possible. · Solvent content: · Organic solvents: 93.8 % · Water: 1.7 % · VOC (EC) 93.82 % Change in condition · Evaporation rate Not determined. · 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

## **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)

· Serious eye damage/irritation Causes serious eye damage.



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· 11.2 Information on other hazards

· Endocrine disrupting properties

CAS: 95-14-7 benzotriazole

#### **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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

## **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.

· Uncleaned packaging:

· Recommendation: Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**SECTION 14: Transport information** 

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA
- · 14.2 UN proper shipping name
- · ADR

·IMDG

- · IATA
- · 14.3 Transport hazard class(es)
- · ADR, IMDG, IATA



- · Label
- 14.4 Packing group
- · ADR, IMDG, IATA
- · 14.5 Environmental hazards:

· 14.6 Special precautions for user

UN1170

1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) ETHANOL SOLUTION

3 Flammable liquids. 3

-

П

Not applicable. Warning: Flammable liquids.

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List II

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F-E,S-D

1L

Not applicable.

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EMS Number:
 14.7 Maritime transport in bulk according to IMO instruments

· Transport/Additional information:

- · Limited quantities (LQ)
- Excepted quantities (EQ)
- · Tunnel restriction code
- · Limited quantities (LQ)
- Excepted quantities (EQ)

· UN "Model Regulation":

Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml D/E

1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN 1170 ETHANOL SOLUTION (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 GB CLP regulation.

Hazard pictograms



· Signal word Danger

#### · Hazard-determining components of labelling: ethyl (S)-2-hydroxypropionate 2-phenoxyethanol succinic acid · Hazard statements H225 Highly flammable liquid and vapour. H318 Causes serious eye damage. **Precautionary statements** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210 P233 Keep container tightly closed. P280 Wear protective gloves / eye protection. P280 Wear protective clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a doctor. 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

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· 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.

#### Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

## · Department issuing SDS: Product Safety Department

· Contact: Hr. Dörr

#### · 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 Flam. Liq. 3: Flammable liquids Category 3 Acute Tox. 4: Acute toxicity Category 4 Eye Dam. 1: Serious eye damage/eye irritation Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

GB