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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.02.2023

Version number 3.3 (replaces version 3.2)

Revision: 22.02.2023

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

- · 1.1 Product identifier
- · Trade name: Flux HW 139
- · 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. 3 H226 Flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Repr. 2 H361d Suspected of damaging the unborn child.

STOT SE 3 H336 May cause drowsiness or dizziness.

#### · 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 Warning

· Hazard-determining components of labelling:

propan-2-ol

2-methylpentane-2,4-diol

#### Hazard statements

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H361d Suspected of damaging the unborn child.
- H336 May cause drowsiness or dizziness.

#### Precautionary statements

- P201 Obtain special instructions before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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P271	Use only outdoors or in a well-ventilated area.		
P280	Wear protective gloves / eye protection.		
P280	Wear protective clothing.		
P302+P352	IF ON SKIN: Wash with plenty of soap and water.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present	and	
	easy to do. Continue rinsing.		
P308+P313	IF exposed or concerned: Get medical advice/attention.		
P332+P313	If skin irritation occurs: Get medical advice/attention.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P403+P235	Store in a well-ventilated place. Keep cool.		
P405	Store locked up.		
P501	Dispose of contents/container in accordance with local/regional/national/international regulations	3.	

### · 2.3 Other hazards

Flux / flux gels: Inhalation of vapors released during the soldering process should be avoided. Flux vapors irritate the nose, throat, and respiratory tract, and can lead to allergic reactions (asthma) after prolonged or repeated contact. Therefore, an active suction is recommended.

After working with the product and before eating, drinking or smoking, wash your hands with soap and water. Keep out of the reach of children.

## • Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

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

#### · 3.2 Mixtures

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

<ul> <li>Dangerous components:</li> </ul>		
CAS: 67-63-0 propan-2-ol EINECS: 200-661-7	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	15 - 45%
CAS: 107-41-5 2-methylpentane-2,4-0 EINECS: 203-489-0	diol Repr. 2, H361d Skin Irrit. 2, H315; Eye Irrit. 2, H319	2 - 9%
CAS: 110-94-1 glutaric acid EINECS: 203-817-2	Skin Corr. 1A, H314; Eye Dam. 1, H318	≤ 2.5%

· 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: In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- 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.

· 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.



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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). 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 7 for information on sale nanding. 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 Open and handle receptacle with care.
   Information about fire and explosion protection: Keep ignition sources away - Do not smoke.
   Protect against electrostatic charges.
   Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

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

• Further information about storage conditions: Keep container tightly sealed.

· 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: 67-63-0 propan-2-ol

WEL (Great Britain) Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

#### CAS: 107-41-5 2-methylpentane-2,4-diol

WEL (Great Britain) Short-term value: 123 mg/m<sup>3</sup>, 25 ppm Long-term value: 123 mg/m<sup>3</sup>, 25 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.

Store protective clothing separately. Avoid contact with the eyes and skin.

## Respiratory protection:

Not necessary if room is well-ventilated.

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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

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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.

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· Eye/face protection Safety glasses

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

<ul> <li>9.1 Information on basic physical and chemical properties</li> </ul>		
· General Information		
· Physical state	Fluid	
· Colour:	Clear	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
<ul> <li>Melting point/freezing point:</li> </ul>	Undetermined.	
· Boiling point or initial boiling point and boiling range	€82 °C	
· Flammability	Flammable.	
<ul> <li>Lower and upper explosion limit</li> </ul>		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	26 °C	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
∙рН	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: 45.0 % · Water: 47.4 % · VOC (EC) 45.00 % 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 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: 67-63-0 propan-2-ol

OralLD505,045 mg/kg (rat)DermalLD5012,800 mg/kg (rabbit)InhalativeLC50/4 h30 mg/l (rat)



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· Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

· Reproductive toxicity Suspected of damaging the unborn child.

• STOT-single exposure May cause drowsiness or dizziness.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is 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.
- 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) (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.

#### **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 14:1	<b>Fransport</b>	information
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14.1 UN	Inumber	or ID	number
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- $\cdot$  ADR, IMDG, IATA
- · 14.2 UN proper shipping name
- · ADR
- · IMDG, IATA
- · 14.3 Transport hazard class(es)
- · ADR, IMDG, IATA



· Class · Label

Laber

· 14.4 Packing group

· ADR, IMDG, IATA

UN1219

1219 ISOPROPANOL (ISOPROPYL ALCOHOL) solution ISOPROPANOL (ISOPROPYL ALCOHOL) solution

3 Flammable liquids.

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· 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. 30 F-E,S-D B	
<ul> <li>14.7 Maritime transport in bulk according to IMC instruments</li> </ul>	D Not applicable.	
· Transport/Additional information:		
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E	
<ul> <li>IMDG</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	
· UN "Model Regulation":	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHO 3, II	L) SOLUTION,

## **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 Warning

· Hazard-determining components of labelling:

propan-2-ol

2-methylpentane-2,4-diol

## Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H336 May cause drowsiness or dizziness.

#### Precautionary statements

- P201 Obtain special instructions before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves / eye protection.
- P280 Wear protective clothing.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.



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- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up. 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
- · 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.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child.

#### 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
- Skin Corr. 1A: Skin corrosion/irritation Category 1A Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Dam. 1: Serious eye damage/eye irritation Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2
- Repr. 2: Reproductive toxicity Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3