

Page 1/9

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.04.2023

Version number 3.5 (replaces version 3.4)

Revision: 13.04.2023

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

- · 1.1 Product identifier
- · Trade name: Flux 200-2542
- · 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:

2-methylpentane-2,4-diol

propan-2-ol

# 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.
- P202 Do not handle until all safety precautions have been read and understood.



Page 2/9

# Safety data sheet

according to 1907/2006/EC, Article 31

Version number 3.5 (replaces version 3.4)

Revision: 13.04.2023

Printing date 13.04.2023

Trade name: Flux 200-2542

(Contd. of page 1)

	(Cond. of page 1)
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or
	shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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.

#### • **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.
- · Dangerous components:

CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	25 - 55%
CAS: 107-41-5 EINECS: 203-489-0	2-methylpentane-2,4-diol	Repr. 2, H361d Skin Irrit. 2, H315; Eye Irrit. 2, H319	10 - 35%
Additional informa	tion. For the mention of the listed because where	- veter to postion 10	

• 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

· General information: Immediately remove any clothing soiled by the product.

· 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.

(Contd. on page 3) GB



according to 1907/2006/EC, Article 31

Version number 3.5 (replaces version 3.4)

Printing date 13.04.2023

Trade name: Flux 200-2542

# · 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.
- · 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 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

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

Prevent formation of aerosols.

# 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

Page 3/9

Revision: 13.04.2023

(Contd. of page 2)



according to 1907/2006/EC, Article 31

Version number 3.5 (replaces version 3.4)

Printing date 13.04.2023 Trade name: Flux 200-2542

# 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

 $\cdot$  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:

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. 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**

$\cdot$ 9.1 Information on basic physical and chemical prope $\cdot$ General Information	erties
· 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	82 °C
· Flammability	Flammable.
<ul> <li>Lower and upper explosion limit</li> </ul>	
· Lower:	Not determined.

Page 4/9

Revision: 13.04.2023

(Contd. of page 3)

(Contd. on page 5) GB



Page 5/9

# Safety data sheet according to 1907/2006/EC, Article 31

Version number 3.5 (replaces version 3.4)

Revision: 13.04.2023

(Contd. of page 4)

Printing date 13.04.2023 Trade name: Flux 200-2542

		(Conta. of page 4)
	Upper:	Not determined.
		30 °C
	-	Not determined.
		Not determined.
	Viscosity:	
	•	Not determined.
	Dynamic:	Not determined.
	Solubility	
		Not miscible or difficult to mix.
		Not determined.
		Not determined.
	Density and/or relative density	
		0.93 g/cm <sup>3</sup>
	-	Not determined.
	Vapour density	Not determined.
		Not determined.
	9.2 Other information	
	Appearance:	
		Fluid
•	Important information on protection of health and	
	environment, and on safety.	
		Product is not selfigniting.
•	Explosive properties:	Product is not explosive. However, formation of explosive
		air/vapour mixtures are possible.
	Solvent content:	
	5	45.1 %
		20.0 %
		45.10 %
	Change in condition	
•	Evaporation rate	Not determined.
	Information with regard to physical hazard classes	
		Void
		Void
		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
		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.



according to 1907/2006/EC, Article 31

Version number 3.5 (replaces version 3.4)

Printing date 13.04.2023

Trade name: Flux 200-2542

· 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

Oral LD50 5,045 mg/kg (rat) LD50 Dermal 12,800 mg/kg (rabbit) Inhalative LC50/4 h 30 mg/l (rat)

· 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: Transport information**

· 14.1 UN number or ID number

· ADR, IMDG, IATA

Page 6/9

(Contd. of page 5)

Revision: 13.04.2023



	fety data sheet to 1907/2006/EC, Article 31	Faye 7/9
Printing date 13.04.2023 Version num	nber 3.5 (replaces version 3.4)	Revision: 13.04.2023
Trade name: Flux 200-2542		
		(Contd. of page 6)
• 14.2 UN proper shipping name • ADR	1993 FLAMMABLE LIQUID, N.C	
· IMDG, IATA	(ISOPROPYL ALCOHOL)) FLAMMABLE LIQUID, N.O.S. (ISOPF ALCOHOL))	ROPANOL (ISOPROPYL
· 14.3 Transport hazard class(es)		
· ADR, IMDG, IATA		
· Class · Label	3 Flammable liquids. 3	
· 14.4 Packing group · ADR, IMDG, IATA	III	
· 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, <u>S-E</u> A	
<ul> <li>14.7 Maritime transport in bulk according to II instruments</li> </ul>	MO Not applicable.	
· Transport/Additional information:		
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packag Maximum net quantity per outer packag	ing: 30 ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	3 D/E	ing. 1000 mi
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packag Maximum net quantity per outer packag	
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N (ISOPROPYL ALCOHOL)), 3, III	.O.S. (ISOPROPANOL

# **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



Page 7/9



Page 8/9

# Safety data sheet

according to 1907/2006/EC, Article 31

Version number 3.5 (replaces version 3.4)

Revision: 13.04.2023

Trade name: Flux 200-2542

Printing date 13.04.2023

(Contd. of page 7)

<ul> <li>Signal word Warn</li> </ul>	ing
• Hazard-determinin 2-methylpentane-2 propan-2-ol	ng components of labelling: ,4-diol
Hazard statement	S
H226 Flammable	liquid and vapour.
H315 Causes skir	n irritation.
H319 Causes ser	
	of damaging the unborn child.
	drowsiness or dizziness.
<ul> <li>Precautionary sta</li> </ul>	
	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
	Use non-sparking tools.
	Take action to prevent static discharges.
	Avoid breathing dust/fume/gas/mist/vapours/spray.
	Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.
	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or
	shower].
	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	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.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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
	substances - ANNEY I Nano of the ingradiante is listed

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.

- H315 Causes skin irritation.
- 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)



according to 1907/2006/EC, Article 31

Version number 3.5 (replaces version 3.4)

# Trade name: Flux 200-2542

Printing date 13.04.2023

Revision: 13.04.2023

(Contd. of page 8)

Page 9/9

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 Irrit. 2: Skin corrosion/irritation – Category 2

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

GB