

Page 1/9

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

Printing date 16.05.2024 Version number 3.6 (replaces version 3.5) Revision: 16.05.2024

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

- · 1.1 Product identifier
- · Trade name: Flux 200-2542 · UFI: 1Y30-F0HA-100N-8PPH
- · 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

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 CLP regulation.

Hazard pictograms







GHS08

· 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.

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 clothing / eye protection.

P280 Wear protective gloves.

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.

(Contd. on page 2)



Page 2/9

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

Printing date 16.05.2024 Version number 3.6 (replaces version 3.5) Revision: 16.05.2024

Trade name: Flux 200-2542

(Contd. of page 1)

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.

· 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 propan-2-ol Flam. Liq. 2, H225 25 - 55%

EINECS: 200-661-7 Eye Irrit. 2, H319; STOT SE 3, H336

Index number: 603-117-00-0

CAS: 107-41-5 2-methylpentane-2,4-diol Repr. 2, H361d 10 - 35%

EINECS: 203-489-0 Skin Irrit. 2, H315; Eye Irrit. 2, H319

Index number: 603-053-00-3

· 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.
- · 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.

(Contd. on page 3)



Page 3/9

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

Printing date 16.05.2024 Version number 3.6 (replaces version 3.5) Revision: 16.05.2024

Trade name: Flux 200-2542

(Contd. of page 2)

• 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 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · 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.

(Contd. on page 4)



Page 4/9

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

Printing date 16.05.2024 Version number 3.6 (replaces version 3.5) Revision: 16.05.2024

Trade name: Flux 200-2542

(Contd. of page 3)

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
Colour:
Odour:
Odour threshold:
Melting point/freezing point:

Fluid

Clear
Characteristic
Not determined.

Undetermined.

Boiling point or initial boiling point and boiling range 82 °C

· Flammability Flammable.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: 30 °C

Decomposition temperature:
 pH
 Not determined.
 Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

· water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)
 Vapour pressure:
 Not determined.
 Not determined.

Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid

Important information on protection of health and environment, and on safety.

· **Ignition temperature:** Product is not selfigniting.

• Explosive properties: Product is not explosive. However, formation of explosive

air/vapour mixtures are possible.

· Solvent content:

Organic solvents: 45.1 %
 ⋅ Water: 20.0 %
 ⋅ VOC (EC) 45.10 %

(Contd. on page 5)



Page 5/9

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

Printing date 16.05.2024 Version number 3.6 (replaces version 3.5) Revision: 16.05.2024

Trade name: Flux 200-2542

(Contd. of page 4)

· 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

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability

· Desensitised explosives

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Void

- · 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

Oral LD50 5,045 mg/kg (rat) Dermal LD50 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.
- · 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 Suspected of damaging the unborn child.
- · STOT-single exposure May cause drowsiness or dizziness.
- · 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.

(Contd. on page 6)



Page 6/9

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

Printing date 16.05.2024 Version number 3.6 (replaces version 3.5) Revision: 16.05.2024

Trade name: Flux 200-2542

(Contd. of page 5)

- · 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.

- · European waste catalogue
- HP3 Flammable
- HP4 Irritant skin irritation and eye damage
- HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
- HP10 Toxic for reproduction
- · 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

UN1993

· 14.2 UN proper shipping name

· ADR

1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))

FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL

ALCOHOL))

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



· IMDG, IATA

· Class 3 Flammable liquids.



Page 7/9

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

Printing date 16.05.2024 Version number 3.6 (replaces version 3.5) Revision: 16.05.2024

Trade name: Flux 200-2542

(Contd. of page 6)

· Label 3

· 14.4 Packing group

· ADR, IMDG, IATA

• 14.5 Environmental hazards: Not applicable.

• 14.6 Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code):
 EMS Number:
 Stowage Category

30
F-E,S-E
A

· 14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Excepted quantities (EQ)
 Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

• Transport category 3
• Tunnel restriction code D/E

IMDG

Limited quantities (LQ)Excepted quantities (EQ)5LCode: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL

(ISOPROPYL ALCOHOL)), 3, III

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







GHS02

GHS07

· 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.

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.

(Contd. on page 8)



Page 8/9

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

Printing date 16.05.2024 Version number 3.6 (replaces version 3.5) Revision: 16.05.2024

Trade name: Flux 200-2542

(Contd. of page 7)

P280 Wear protective clothing / eye protection.

P280 Wear protective gloves.

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.

- · 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

None of the ingredients is listed.

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

None of the ingredients is listed.

· 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
- Date of previous version: 16.05.2024
- · Version number of previous version: 3.5
- · 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)



Page 9/9

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

Printing date 16.05.2024 Version number 3.6 (replaces version 3.5) Revision: 16.05.2024

Trade name: Flux 200-2542

(Contd. of page 8)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic PB1: 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 overcets)

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

EU