

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

1.1 Product identifier

Identification on the label/Trade name

label designation/Name of product

ELECTRONIC FLUX, No. T0051383199; Quickflux, No. T0051383799

Other means of identification

SDS-09

Trade name/designation Weller ELECTRONIC FLUX / Quickflux

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Sector of uses [SU]

fluxing agent; Flussmittel

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Weller Tools GmbH

Carl-Benz-Straße 2

Germany-74354 Besigheim

P.O. Box:

Telephone: +49 7143 580-0

Telefax: +49 7143 580-108

E-mail: info@weller-tools.com

Dept. responsible for information: environmental department

Information telephone: +49 7143 580-101

Information telefax: +49 7143 580-108

Emergency telephone number: GIZ Mainz +49 6131 - 19240 (language - german, english, french)

1.4 Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Categories of danger

F; R11

Xi; R36

R67

R-phrases

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Health hazards:

health hazards

Eye Irrit. 2

hazard statements for health hazards

H319 Causes serious eye irritation.

health hazards

STOT SE 3

hazard statements for health hazards

H336 May cause drowsiness or dizziness.

Physical hazards:

Physical hazards

Flam. Liq. 2

hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols and hazard statements of dangerous substances and preparations

F Leichtentzündlich.

Xi Reizend.

R-phrases

R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

S-phrases

S2 Keep out of the reach of children.
S46 If swallowed, seek medical advice immediately and show this container or label.
S23 Gas/Rauch/Dampf/Aerosol nicht einatmen.
S16 Keep away from sources of ignition. - No smoking.
S7/9 Keep container tightly closed and in a well-ventilated place.
S29/35 Do not empty into drains; dispose of this material and its container in a safe way.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS02

GHS07

Signal word

Danger

Hazard Statements:

Hazard statements for physical hazards:

H225 Highly flammable liquid and vapour.

Hazard statements for health hazards:

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary Statements:

General:

P102 Keep out of reach of children.

Prevention:

P210 Von Hitze/Funken/offener Flamme/heißen Oberflächen fernhalten. - Nicht rauchen.
P233 Keep container tightly closed.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.

Response:

P301 IF SWALLOWED:
P313 Get medical advice/ attention.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501.1 Dispose of contents/container to industrial incineration plant.

Product identifiers

Propan-2-ol

Special rules on packaging

Tactile warning according to EN/ISO 11683.

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1/3.2 Preparation related information

Description

Alcoholic Solution of the following ingredients / Alkoholische Lösung aus folgenden Inhaltsstoffen:

Hazardous ingredients:

propan-2-ol >=75 - <=85 %

CAS 67-63-0

EC 200-661-7

INDEX 603-117-00-0

F R11; Xi R36; R67

Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336

2-methylpentane-2,4-diol CAS 107-41-5 EC 203-489-0 INDEX 603-053-00-3 Xi R36/38 Skin Irrit. 2, H315 / Eye Irrit. 2, H319	<2,5 %
Succinic-acid / Bernsteinsäure CAS 110-15-6 EC 203-740-4 Xi; R36	<2,5 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

following skin contact:

In case of skin irritation, seek medical treatment. After contact with skin, wash immediately with plenty of water and soap.

After eye contact

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Do not induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Extinguishing powder. Dry sand. alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Special hazard resulting from the substance, its combustion products or resulting gases: / Im Brandfall können entstehen: Can form explosive gas-air mixtures. Formation of toxic gases is possible during heating or in case of fire. Can be released in case of fire: Carbon monoxide and carbon dioxide. / Behälter kann unter Hitze einwirkung explodieren. Dämpfe sind schwerer als Luft und können sich in tiefergelegenen Bereichen sammeln. Dämpfe können sich entzünden. Dämpfe wirken betäubend.

5.3 Advice for firefighters

Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

Remove all sources of ignition. Vapours are heavier than air and will spread at floor level.

6.2 Environmental precautions

Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

6.3 Methods and material for containment and cleaning up

No data available

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Keep away from sources of ignition - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Ensure adequate ventilation of the storage area.

Further information on storage conditions

heat. UV-radiation/sunlight. Keep locked up. Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
67-63-0	Propan-2-ol	999 mg/m ³ 400 ppm	1250 mg/m ³ 500 ppm	
107-41-5	2-Methylpentane-2,4-diol	123 mg/m ³ 25 ppm	123 mg/m ³ 25 ppm	Great Britain (UK)
				Great Britain (UK)

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

Personal protection equipment

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

amber coloured

Odour

Isopropyl alcohol.

	parameter	Method - source - remark
pH value	ca.3,9	
Melting point / melting range		No data available
Boiling temperature / boiling range	ca.82 °C	
Flash point (°C)	13 °C	
Vapourisation rate / Evaporation rate		No data available
Flammable solids		No data available
Flammable aerosols		No data available
Upper explosion limit (Vol-%)	12 Vol-%	
Lower explosion limit (Vol-%)	2 Vol-%	
Vapour pressure	43 hPa	
Density	0,81 g/cm ³ at °C: 20 °C	

parameter	Method - source - remark
Relative vapour density at 20 °C (air=1)	No data available
Fat solubility (g/L)	No data available
Soluble (g/L) in	No data available
Partition coefficient n-octanol/water (log P O/W)	No data available
Self ignition temperature (SIT) 425 °C	
Self ignition temperature (SIT)	No data available
Exothermic decomposition	No data available
Explosives	No data available
Oxidising gases	No data available
Oxidising liquids	No data available
Oxidising solids	No data available

9.2 Other safety information

Solid content (%) 13,1 %

Solvent content (%) 85 %

Water solubility (g/L)

remark

miscible.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Gas/vapour, highly flammable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Eye damage/irritation

Result / evaluation

irritant.

Acute toxicity

Acute dermal toxicity

Acute toxicity, dermal 12800 - 13400 mg/kg

Effective dose

LD50:

Species:

Rabbit.

Acute inhalation toxicity (vapour) propan-2-ol

Acute inhalation toxicity (vapour) 30 - 46,5 mg/l

Effective dose

LC50:

Exposure time 4 h

Species:

Rat.

Acute oral toxicity

Acute toxicity, oral 4570 - 5045 mg/kg

Effective dose

LD50:

Species:

Rat.

skin corrosion/irritation

Skin corrosion

Result / evaluation

mild irritant.

SECTION 12: Ecological information

12.1 Toxicity

Effects in sewage plants

evaluation

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

Aquatic toxicity

Acute (short-term) fish toxicity 9640 mg/l

Effective dose

LC50:

Test duration 96 h

species

Pimephales promelas

Toxicity to microorganisms

Bacterial toxicity: 22000 mg/l

Effective dose

EC50:

Test duration 15 min

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Appropriate disposal/Product:

Entsorgung gemäß Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG). Waste disposal according to official state regulations.

Waste code packaging 140603

Waste name

andere Lösemittel und Lösemittelgemische

Waste code product 140603

Waste name

andere Lösemittel und Lösemittelgemische

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	1219	1219	1219
14.2 Proper Shipping Name	ISOPROPANOL	ISOPROPANOL	Isopropanol
14.3 Class(es)	3	3	3
14.4 Packing group	II	II	II
14.5 ENVIRONMENTALLY HAZARDOUS	No	No	No

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable	not applicable	not applicable

Additional information - Land transport (ADR/RID)

Hazard label(s)	3
Limited quantity (LQ)	1 L
Hazard identification number (Kemler No.)	33
tunnel restriction code	D/E
transport category	2

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Germany

Technische Anleitung Luft (TA-Luft)

weight fraction in % >=25 - <=100 % by weight

remark

Keine Zuordnung zu den Klassen I, II und III.

Water hazard class (WGK)

schwach wassergefährdend (WGK 1)

15.2 Chemical Safety Assessment

Leichtentzündlich. Reizend.

SECTION 16: Other information

Key literature references and sources for data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.