

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

1.1 Product identifier

Trade name/designation Weller ELECTRONIC FLUX

Identification on the label/Trade name

label designation/Name of product

ELECTRONIC FLUX, No. T0051383199

Other means of identification

SDS-09

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

Relevant identified uses

Sector of uses [SU]

FLUXING AGENT / FLUSSMITTEL / ELECTRONIC FLUX

1.3 Details of the supplier of the safety data sheet

Supplier

Weller Tools GmbH

Carl-Benz-Straße 2

Germany-74354 Besigheim

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

1.4 Emergency telephone number

GIZ Mainz +49 6131 - 19240 (language - german, english, french)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

Flam. Liq. 2

hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

2.2 Label elements

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

Hazard components for labelling

Propan-2-ol

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:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 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 Substances/Mixtures

Description

Mixture / Mélange / Gemisch

Hazardous ingredients

propan-2-ol >=50 - <=100 %

CAS 67-63-0

EC 200-661-7

INDEX 603-117-00-0

REACHNo 01-2119457558-25

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

2-methylpentane-2,4-diol <2,5 %

CAS 107-41-5

EC 203-489-0

INDEX 603-053-00-3

Eye Irrit. 2, H319 / Skin Irrit. 2, H315

Succinic-acid / Bernsteinsäure <2,5 %

CAS 110-15-6

EC 203-740-4

Eye Dam. 1, H318

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.

Following 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.

Unsuitable extinguishing media

High power water jet.

Water

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide

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.

Hints on joint storage

Storage class

Flammable liquids

Further information on storage conditions

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

storage temperature

Value >=5 - <=20 °C

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

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

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

Eye/face protection

Suitable eye protection:

goggles

Skin protection

Suitable gloves type:

Disposable gloves

Suitable material:

NBR (Nitrile rubber)

Recommended glove articles

DIN-/EN-Norms:

DIN EN 374

Respiratory protection

Respiratory protection necessary at:
 insufficient ventilation

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	ca.3,9	
Melting point/freezing point		not determined
Initial boiling point and boiling range	ca.82 °C	
Flash point (°C)	13 °C	
Evaporation rate		not determined
flammability		not determined
Upper explosion limit	12 Vol-%	
lower explosion limit	2 Vol-%	
Vapour pressure	43 hPa	
Vapour density		not determined
Relative density	0,81 g/cm ³	Temperature 20 °C
Fat solubility (g/L)		not determined
Water solubility (g/L)		partially miscible
Soluble (g/L) in		not determined
Partition coefficient: n-octanol/water		not determined
Auto-ignition temperature	300 °C	
Auto-ignition temperature		not determined
Decomposition temperature		not determined

9.2 Other information

Solvent content (%)

Value 85 %

remark

VOC (EU) 85%

Solid content (%)

Value 13,1 %

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Gas/vapour, highly flammable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute dermal toxicity 12800 mg/kg

Effective dose

LD50:

Species:

Rabbit.

Acute inhalation toxicity (vapour)

ingredient propan-2-ol

Acute inhalation toxicity (vapour) 30 mg/L

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

Acute oral toxicity 5045 mg/kg

Effective dose

LD50:

Species:

Rat.

skin corrosion/irritation

Result / evaluation

irritant.

Serious eye damage/irritation

Assessment/classification

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.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Waste disposal according to official state regulations.

Waste code packaging 140603

hazardous waste Yes.

Waste name

other solvents and solvent mixtures

Waste code product 140603

hazardous waste Yes.

Waste name

other solvents and solvent mixtures

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	Isopropyl alcohol
14.3 Class(es)	3	3	3
14.4 Packing group	II	II	II
14.5 ENVIRONMENTALLY HAZARDOUS	No	No	No
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
Classification code F1
Limited quantity (LQ) 1 L
Hazard identification number (Kemler No.) 33
tunnel restriction code D/E
transport category 2
remark Mixture / Mélange / Gemisch

remark

1219 ISOPROPANOL (ISOPROPYLALKOHOL), Gemisch
 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), mixture

Additional information - Sea transport (IMDG)

Marine pollutant No
remark EMS-No.: F-E, S-D

remark

Klasse 3 Entzündbare flüssige Stoffe
 Class 3 Flammable liquids
 EMS-No.: F-E, S-D

Additional information - Air transport (ICAO-TI / IATA-DGR)

Limited quantity (LQ) 1
remark Mixture

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations (EU)

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Classification according to Annex I, Part 1

P5c Flammable liquids

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport 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, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Relevant R-, H- and EUH-phrases (Number and full text)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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.