

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

remark

Art. 31 and 2020/878/EU

*

1.1 Product identifier

Product category

Chemical products (excludes biocidal products)

PC-TEC-24 Welding, soldering, and flux products

Trade name/designation Weller ELECTRONIC FLUX

Product-no.: ELECTRONIC FLUX, No. T0051383199 [UFI: 2EP8-U0A9-S00U-EXCQ]

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]

SU16 Manufacture of computer, electronic and optical products, electrical equipment

Product categories [PC]

PC38 Welding and soldering products (with flux coatings or flux cores), flux products

Activator

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

Department 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 (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

Substance name

Propan-2-ol

Hazard pictograms



GHS02



GHS07

Signal word

Danger

Hazard statements

hazard statements for health hazards

H336 May cause drowsiness or dizziness.

Precautionary statements

General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Storage:

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

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Special rules for supplemental label elements for certain mixtures

Labelling of packages where the contents do not exceed 125 ml

Content < 125 ml

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	
REACHNo 01-2119539582-35	
Eye Irrit. 2, H319 / Skin Irrit. 2, H315	
Succinic-acid	<2,5 %
CAS 110-15-6	
EC 203-740-4	
Eye Dam. 1, H318	

Additional information

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

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

Following skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.

Following ingestion

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

Full 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

Emergency procedures

Remove persons to safety.

Personal precautions

Use personal protection equipment.

For emergency responders

Personal protection equipment

Use appropriate respiratory protection.

6.2 Environmental precautions

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:

Sand

Universal binder

For cleaning up

Unsuitable material for diluting or neutralising:

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

Protective measures

Advices on safe handling

All work processes must always be designed so that the following is excluded:

Generation/formation of aerosols

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation

Vapours / aerosols should be extracted by suction directly at point of origin.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

Materials to avoid

Do not store together with:

Food and feedingstuffs

Keep away from:

Combustible substance

Storage class

Flammable liquids

Storage class

Storage class / Lagerklasse 3

Further information on storage conditions

Protect against:

Heat

UV-radiation/sunlight

Frost

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/>)

biological limit values

Limit value type (country of origin):

BLV (DE)

Substance name propan-2-ol

CAS No. 67-63-0

EC No. 200-661-7

parameter

Acetone

Limit value 25 mg/L

Test material:

Whole blood (B)

Time of sampling:

exposure end / shift end _ Expositionsende / Schichtende

source

TRGS 903

Substance name propan-2-ol

CAS No. 67-63-0

EC No. 200-661-7

parameter

Acetone

Limit value 25 mg/L

Test material:

Urine (U)

Time of sampling:

exposure end / shift end _ Expositionsende / Schichtende

source

TRGS 903

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Reduce exposure to fume by keeping operating temperatures as low as possible taking into account occupational exposure limits and safe handling temperatures (see Section 7). Where practicable handle within an enclosed process. Alternatively local exhaust ventilation should be considered.

Personal protection equipment

Eye/face protection

Suitable eye protection:

Eye glasses with side protection

remark

*

Skin protection

Suitable gloves type

Disposable gloves

Suitable material:

NBR (Nitrile rubber)

Thickness of the glove material >=0,33 mm

Recommended glove articles

DIN-/EN-Norms

EN ISO 374

additional hand protection measures

Check leak tightness/impermeability prior to use.

remark

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection:

Suitable protective clothing:

lab coat

Respiratory protection

remark

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

amber

Odour

Isopropanol

	parameter	Method - source - remark
	Melting point/freezing point	not determined
	Boiling point or initial boiling point and boiling range	ca.82 °C
	flammability	not determined
	Upper explosion limit	12 Vol-%
	lower explosion limit	2 Vol-%
	Flash point (°C)	13 °C
	Auto-ignition temperature	not determined
	Decomposition temperature	not determined

parameter		Method - source - remark
pH	ca.3,9	
Kinematic viscosity		not determined
Water solubility		partially miscible
Soluble (g/L) in		not determined
Fat solubility		not determined
Partition coefficient: n-octanol/water		not determined
Vapour pressure	43 hPa	
Density and/or relative density	0,81 g/cm ³	Temperature 20 °C
Relative vapour density		not determined
particle characteristics		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 specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

In use, may form flammable/explosive vapour-air mixture.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Acute dermal toxicity

ingredient propan-2-ol

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

ingredient propan-2-ol

Acute oral toxicity 5045 mg/kg

Effective dose

LD50:

Species:

Rat

Serious eye damage/irritation

Assessment/classification

strongly irritant.

skin corrosion/irritation

Assessment/classification

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

Based on available data, the classification criteria are not met.

Skin sensitisation

Assessment/classification

Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Overall Assessment on CMR properties

Due to missing data no statement can be made whether the substance fulfills the criteria of CMR categories 1 or 2.

Germ cell mutagenicity

Assessment/classification

Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment/classification

Based on available data, the classification criteria are not met.

STOT-single exposure

STOT SE 3

Narcotic effects

Assessment/classification

May cause drowsiness or dizziness.

STOT-repeated exposure

STOT RE 1 and 2

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1 Toxicity

Additional ecotoxicological information

General information

Discharge into the environment must be avoided.

Assessment/classification

No data available

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 Endocrine disrupting properties

remark

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

remark

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Recycle according to official regulations. Completely emptied packages can be recycled.

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Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste code product 140603

hazardous waste Yes.

Waste name

other solvents and solvent mixtures

Properties of waste which render it hazardous

HP3 Flammable

HP4 Irritant — skin irritation and eye damage

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

After intended use

Waste code packaging 150101

hazardous waste No

Waste name

paper and cardboard packaging

Waste code packaging 150102

hazardous waste No

Waste name

plastic packaging

Waste code packaging 150110

hazardous waste Yes.

Waste name

packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	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 Environmental hazards	No	No	No
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	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 33

(Kemler No.)

tunnel restriction code D/E

transport category 2

remark 1219 ISOPROPANOL (ISOPROPYLALCOHOL), Gemisch 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), mixture

remark

*

Additional information - Sea transport (IMDG)

Marine pollutant

No

remark

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

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

Limited quantity (LQ)

1

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).

restrictions on use

Use restriction according to REACH annex XVII, no.:

3

Other regulations (EU)

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

Hazard categories

P5c Flammable liquids

Named dangerous substances

none

To follow:

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Abbreviations and acronyms

See overview table at www.euphrac.eu

**Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008
[CLP]**

See SECTION 2.1 (classification).

Indication of changes

* Data changed compared with the previous version

20160608: matching section 1, 8, 15 to Regulations 453/2010/EC, 830/2015/EU, 2012/18/EU

20170404: section 13, adaption to Regulation 2016/918/EU

20190503: section 1, 8.1

20210223: section1 - UFI, 2.2 (<125ml), 8, 11, 13, 14, 16

20220217: section 2.2 H225 not if <125ml, section 14 - wording ISOPROPANOL

20220718: section1 - Art. 31 and 2020/878/EU, 1.2 - SU16 + PC38, 11 +12 endocrin info

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

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.