

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EU) No 453/2010

Article No.: 169000 WITEC Quellschweissmittel
Print date: 04.11.2013 Revision date: 24.07.2013
Version: 1.3 Issue date: 24.07.2013

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Supplier: Projex Group Pty Ltd

ABN: 13 003 859 916

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Website: www.projex.com.au Emergency telephone number: Australia – +61 432664472

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

1.1. Product identifiers

Article No. (manufacturer/supplier) 169000
Identification of the substance or mixture WITEC Quellschweissmittel
Art.Nr. 169000, 169001, 169002

REACH registration No. 01-2119444314-46

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

1.3. Details of the supplier of the safety data sheet

manufacturer

Wolfen Bautechnik GmbH
Am Rosengarten 5 Telephone: +49 0175 30 57725
D-63607 Wächtersbach - Neudorf Telefax: +49 (0)6053 708-130
E-mail j.schnell@sauer-roller.com

Dept. responsible for information:

+49 (0)171 585 58 01

1.4. Emergency telephone number

Emergency telephone number +49 (0)6131 19240 (Poison Control Center Mainz)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

This substance is classified as dangerous according to regulation (EC) 1272/2008 [CLP].

Flam. Liq. 2 / H225	Flammable liquids:	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation:	Causes serious eye irritation.
Carc. 2 / H351	Carcinogenicity:	Suspected of causing cancer.
STOT SE 3 / H335	Specific target organ toxicity (single exposure):	May cause respiratory irritation.

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

This substance is classified as hazardous according to 67/548/EWG.

F; R11	Highly flammable	Highly flammable
R19		May form explosive peroxides.
Xi; R36/37	Irritant	Irritating to eyes and respiratory system.
Carc. Cat. 3; R40	Carcinogenic Cat. 3 (Carc. Cat. 3).	Limited evidence of a carcinogenic effect.

2.2. Label elements

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

Hazard pictograms



Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof ventilating equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.

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- P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
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 to industrial incineration plant.

contains:

Tetrahydrofuran

Supplemental Hazard information (EU)

NA

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



F Highly flammable



Xn Harmful

Hazard statements

- 11 Highly flammable
19 May form explosive peroxides.
36/37 Irritating to eyes and respiratory system.
40 Limited evidence of a carcinogenic effect.

Precautionary statements

- 16 Keep away from sources of ignition. - No smoking.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
33 Take precautionary measures against static discharge.
36/37 Wear suitable protective clothing and gloves.
38 In case of insufficient ventilation, wear suitable respiratory equipment.
51 Use only in well-ventilated areas.
23 Do not breathe vapour.

contains:

Tetrahydrofuran

Special provisions concerning the labelling of certain mixtures

NA

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.1. Substances

Product description / chemical characterization

Description Lösemittel-Gemisch

Hazardous ingredients

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

EC No.	REACH No.	Wt %
CAS No.	Chemical name	Remark
INDEX No.	classification	
203-726-8	01-2119444314-46	
109-99-9	Tetrahydrofuran	75 - 100
603-025-00-0	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / Carc. 2 H351 / STOT SE 3 H335	

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

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EC No. CAS No. INDEX No.	REACH No. Chemical name classification	Wt % Remark
203-726-8 109-99-9 603-025-00-0	01-2119444314-46 Tetrahydrofuran F; R11 / R19 / Xi; R36/37 / Carc.Cat.3; R40	75 - 100

Additional information

Full text of R-phrases: see section 16.
Full text of H-phrases: see section 16.

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. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

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

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Tetrahydrofuran

INDEX No. 603-025-00-0 / EC No. 203-726-8 / CAS No. 109-99-9

TWA: 300 mg/m³; 100 ppm

STEL: 599 mg/m³; 200 ppm

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Dand protection

For prolonged or repeated handling the following glove material must be used: 1 = Nitrilkautschuk

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

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Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. **Information on basic physical and chemical properties**

Appearance:

Physical state liquid
Colour siehe Handelsname
Odour arttypisch

Safety relevant basis data	Unit	Method	Remark
Flash point:	-20 °C	DIN 53213	
Ignition temperature in °C:	230 °C	DIN 51794	
lower explosion limit:	1,5 Vol-%	Berechnet	
Upper explosion limit:	12,4 Vol-%	Berechnet	
Vapour pressure at 20 °C:	173,00 mbar	Literaturwert	
Density at 21 °C:	0,890 g/cm³	DIN 53217	
Water solubility (g/L):	practically soluble		
pH value at 20 °C:	NA Wt %	Messung	
Viscosity at 0 °C:	0,47 mPa·s		
Solvent separation test (%):	< 3 %	ADR/RID	
Solid content (%):	0 Wt %		
solvent content:			
Organic solvents:	100 Wt %		
Water:	0 Wt %		

9.2. **Other information**

SECTION 10: Stability and reactivity

10.1. **Reactivity**

10.2. **Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. **Possibility of hazardous reactions**

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**

10.6. **Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides. Keine, bei sachgemäßer Lagerung unbekannt

SECTION 11: Toxicological information

No data on preparation itself available.

11.1. **Information on toxicological effects**

Acute toxicity

Tetrahydrofuran
oral, LD50, Rat: 1650 mg/kg

Irritant and corrosive effects

Toxicological data are not available.

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Sensitisation

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

This substance does not meet the criteria for classification as CMR category 1 or 2 according to 67/548/EEC.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

SECTION 12: Ecological information

overall evaluation

There is no information available on the preparation itself .
Do not allow to enter into surface water or drains.

12.1. **Toxicity**

Tetrahydrofuran
Fish toxicity, LC50: 2160 mg/l (96 h)

12.2. **Persistence and degradability**

Toxicological data are not available.

12.3. **Bioaccumulative potential**

Toxicological data are not available.

12.4. **Mobility in soil**

Toxicological data are not available.

12.5. **Results of PBT assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. **Other adverse effects**

SECTION 13: Disposal considerations

13.1. **Waste treatment methods**

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

140603 other solvents and solvent mixtures

packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. **UN number**

2056

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14.2. UN proper shipping name

Land transport (ADR/RID): Tetrahydrofuran
Sea transport (IMDG): TETRAHYDROFURAN
Air transport (ICAO-TI / IATA-DGR): Tetrahydrofuran

14.3. Transport hazard class(es)

3

14.4. Packing group

II

14.5. Environmental hazards

Land transport (ADR/RID) NA
Marine pollutant NA

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Additional information

Land transport (ADR/RID)

tunnel restriction code D/E

Sea transport (IMDG)

EmS-No. F-E, S-D

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: 890,000

VOC-value (in g/L) ASTM D 2369: 890,000

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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

Other regulations, restrictions and prohibition regulations

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Relevant R-and H-phrases (Number and full text):

Flam. Liq. 2 / H225

Flammable liquids:

Highly flammable liquid and vapour.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation:

Causes serious eye irritation.

Carc. 2 / H351

Carcinogenicity:

Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

STOT SE 3 / H335

Specific target organ toxicity (single exposure):

May cause respiratory irritation.

F; R11

Highly flammable

Highly flammable

R19

May form explosive peroxides.

Xi; R36/37

Irritant

Irritating to eyes and respiratory system.

Carc.Cat.3; R40

Carcinogenic Cat. 3 (Carc. Cat. 3).

Limited evidence of a carcinogenic effect.

Additional information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in

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chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.