

ISOCELL GmbH & Co KG, Gewerbestrasse 9, A-5202 Neumarkt am Wallersee
EU SAFETY DATA SHEET

according to regulation (EC) no. 1907/2006 and regulation (EC) no. 453/2010

OMEGA solvent welding agent THF

Date of creation: 20.06.2013

Revised: 02.06.16

Version 1.0

Page 1 of 9

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

1.1 Product identifier

Trade name: Solvent welding agent THF
Substance name: Solvent welding agent

1.2 Relevant identified use of the substance or mixture and inadvisable uses

Use of the substance/mixture:

No further relevant information available.

Recommended application restrictions:

No information on usage restrictions is available to us at the present time. Data will be added to the safety data sheet when it becomes available.

1.3 Details of the supplier providing the safety data sheet

Trade name: Solvent welding agent
Usage: Solvent, cleaning agent

Information about the supplier

Isocell GmbH

Phone 0043 6216-4108-0

Fax 0043 6216-7979

Informing department: Phone.: **00 43 6216-4108-0**

Emergency information: 0049-(0)-30 30686 790

www.giftnotruf.de

2. POSSIBLE HAZARDS

2.1 Classification of the substance or mixture

Classification in accordance with EC regulation 1272/2008 (CLP)



GHS08 Health hazard



GHS02 Flammable

Flam. Liq. 2

H225

Highly flammable liquid and vapour.

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OMEGA solvent welding agent THF

Date of creation: 20.06.2013

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Version 1.0

Page 2 of 9



GHS07

Acute Tox. 4	H302	Harmful if swallowed.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H335 + H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Carc. 2	H351	Suspected of causing cancer.

Classification according to directive 67/548/EEC:

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

Labelling according to directive (EU) 1272/2008



2.2 Label elements

Labelling (CLP)

Signal word

Danger

Hazard statements:

H225 + EUH019	Highly flammable liquid and vapour. May form explosive peroxides.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335 + H336	May cause respiratory irritation. May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

Safety instructions:

P210	Keep away from heat, sparks, open flames and other sources of ignition. No smoking.
P233	Keep container tightly closed.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P243	Take precautionary measures against static discharge.
P261	Avoid inhaling dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P403 + P235	Keep cool. Store in a well-ventilated place.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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OMEGA solvent welding agent THF

Date of creation: 20.06.2013

Revised: 02.06.16

Version 1.0

Page 3 of 9

3. COMPOSITION/INFORMATION ON THE CONSTITUENTS

3.1 Substances

Hazardous ingredients	Quantity [%]	Hazard class / hazard category	Hazard statements	Classification (67/548/EEC)
Tetrahydrofuran;				
EC no.: 200-662-2	88 - 92	Acute Tox. 4	GHS02	Xi; R36/37
CAS no.: 109-99-9		Eye Irrit. 2	GHS07, GHS08	F; R11
		STOT SE 3	H225 + EUH019	
			H302	R19, R40
		Carc. 2	H319, Dgr, H351	
			H335 + H336	
			H319	
			H335 + H336	
Cyclohexanone;				
EC no.: 203-631-1	8 - 12		GHS02	Xn, R10- R20
CAS no.: 108-94-1			GHS07	
			H226, H332	

The full wording of the R-phrases named here can be found in section 2.

4. FIRST AID MEASURES

4.1 Description of the first aid measures

General information:

Remove clothing contaminated by the product.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

After skin contact, wash with soap and water and rinse with plenty of water.

After eye contact:

Rinse out the eyes for several minutes under running water while holding the eyelids open. Consult a doctor if symptoms persist.

If swallowed:

Consult a doctor immediately.

4.2 Most important acute or delayed symptoms and effects

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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according to regulation (EC) no. 1907/2006 and regulation (EC) no. 453/2010

OMEGA solvent welding agent THF

Date of creation: 20.06.2013

Revised: 02.06.16

Version 1.0

Page 4 of 9

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing agents:

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray jet. Fight larger fires with an alcohol-resistant foam.

Extinguishing agents that are unsuitable for safety reasons:

Full water jet

5.2 Special hazards posed by the substance or mixture

Flammable. Vapours are heavier than air and spread over the floor. Explosive mixtures with air possible at room temperature. Carbon oxides (CO, CO₂)

5.3 Fire fighting information

Special protective equipment for fire fighting:

Wear self-contained breathing apparatus. Wear a full protective suit.

Further details:

Fire residues and contaminated extinguishing water must be disposed of in accordance with the official regulations. Strike down escaping vapours with water.

6. MEASURES TO BE TAKEN IN CASE OF INADVERTENT RELEASE

6.1 Individual precautionary measures, protective equipment and procedures to be followed in emergencies

Wear protective equipment. Keep unprotected persons away. Keep sources of ignition away. Avoid contact with the substance.

6.2 Environmental protection measures:

Do not allow substance to enter surface water or sewers. Inform police and fire brigade if released into the environment.

6.3 Methods and materials for retention and cleaning

Take up with liquid-binding materials (sand, diatomaceous earth, acid-binding agent, universal binding agent, sawdust). Ensure sufficient ventilation. Clean again.

7. HANDLING AND STORAGE

7.1 Protective measures for safe handling

Information on safe handling:

Open and handle the container carefully.

Instructions for protection against fire and explosion:

Keep sources of ignition away – no smoking. Take precautionary measures against static discharge.

7.2 Conditions for safe storage, taking into account incompatibilities

Requirements for storerooms and containers:

Store tightly closed in a cool and dry place. Protect against heat. Store in a place that is accessible only to authorised persons.

Information on storage with other substances:

Store separately from oxidising agents.

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OMEGA solvent welding agent THF

Date of creation: 20.06.2013

Revised: 02.06.16

Version 1.0

Page 5 of 9

Further information on storage conditions:

Keep containers tightly closed. Store in a cool and dry place in tightly closed containers. Store only outdoors or in explosion-proof rooms. Protect against the entry of air/oxygen (peroxide formation). Store in a place that is locked or only accessible to competent persons or their representatives.

Recommended storage temperature: < 30 °C

Storage class: 3

Classification according to Occupational Health and Safety Regulations (BetrSichV): Highly flammable

Specific end applications: No further relevant information available.

8. LIMITATION AND MONITORING OF EXPOSURE/PERSONAL PROTECTIVE EQUIPMENT

Additional information on the design of technical systems: No further information, see point 7.

8.1 Parameters to be monitored

Constituents with workplace-related limit values to be monitored:

OEL 150 mg/m³, 50 ml/m³

2(I); DFG, H, Y

8.2 Limitation and monitoring of exposure

Explosion protection necessary. Ensure good aeration of the work room and/or extraction system at the workplace.

Limitation and monitoring of the exposure at the workplace

Personal protective equipment:

General protective and hygiene measures: Keep away from foodstuffs, beverages and animal fodder. Take off immediately all contaminated clothing. Wash your hands before breaks and at the end of work.

Do not inhale gases/vapours/sprays. Avoid contact with the eyes and the skin.

Respiratory protection:

Use an air filter mask for short-term or low exposure; use self-contained breathing apparatus for intensive or lengthy exposure. Filter A

Hand protection:

The glove material must be impermeable and resistant to the product / substance / preparation. Selection of the glove material taking into account the breakthrough time, permeation rate and degradation.

Glove material:

The selection of suitable gloves depends not only on the material, but also on further quality features and differs from manufacturer to manufacturer. As the product represents a preparation of several substances, the resistance of glove materials cannot be predicted and must therefore be tested prior to use.

Penetration time of the glove material: The precise breakthrough time must be obtained from the glove manufacturer and adhered to.

Gloves made of the following materials are suitable for continuous contact:

Fluorine rubber (Viton) max. 120 min.

Gloves made of the following materials are suitable for continuous contact of 15 minutes at the most:

Butyl rubber

Gloves made of the following materials are suitable for protection against splashes: Butyl rubber

Eye protection:

Tightly fitting safety goggles according to EN 166.

Body protection: Protective work clothes.

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OMEGA solvent welding agent THF

Date of creation: 20.06.2013

Revised: 02.06.16

Version 1.0

Page 6 of 9

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the fundamental physical and chemical properties

Form: liquid
Colour: colourless
Odour: smells like cyclohexanone

Safety-relevant data

Boiling point/boiling range: 65 - 156 °C
Melting point/melting range: -50 °C
Flashpoint: -20 °C (Abel-Pensky DIN 51755= c.c. closed cup).
Ignition temperature: approx. 230 °C

Explosive limits: lower 1.1 % by vol.
upper 12 % by vol.

Vapour pressure: at 20 °C 173 hPa
Density: at 20 °C 0.88 g/cm³
Solubility in water: partly soluble

10. STABILITY AND REACTIVITY:

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:
No decomposition if stored and handled as intended.

10.3 Possibility of dangerous reactions

Peroxide formation possible with strong oxidising agents.

10.4 Conditions to be avoided

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Flammable gases/vapours

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Acute toxicity:

Oral	LD50	1650 mg/kg (rat)
Inhaled	LD50 (30 min)	55-60 mg/l (rat)

Primary irritating effect:

On the skin: not irritating
In the eye: very irritating
Sensitisation: No sensitising effect known

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OMEGA solvent welding agent THF

Date of creation: 20.06.2013

Revised: 02.06.16

Version 1.0

Page 7 of 9

12. ENVIRONMENTALLY RELATED INFORMATION

12.1 Toxicity

Aquatic toxicity:

EC50	3700 mg/l (Chlorella vulgaris)
LC50 (48 h)	3485 mg/l (Daphnia magna)
LC50 (96 h)	2820 mg/l (Leuciscus idus)

12.2 Persistence and degradability Not easily biodegradable

12.3 Bioaccumulation potential No further relevant information available.

12.4 Mobility in the soil No further relevant information available.

Further ecological information:

General information: Water Hazard Class 1

12.5 Results of the PBT PBT: Not applicable

and vPvB assessment vPvB: Not applicable

13. INFORMATION ON DISPOSAL

Procedure for the treatment of waste

Recommendation: May not be disposed of together with household waste. Do not allow to enter the sewer.

Contaminated packaging:

Recommendation: Disposal in accordance with official regulations.

Recommended cleaning agent: Water, if necessary with the addition of cleaning agents.

14. INFORMATION ON TRANSPORT

14.1 UN number 2056

14.2 UN shipping name

ADR, ADN:	UN 2056 TETRAHYDROFURAN
IMDG, IATA:	TETRAHYDROFURAN

14.3 Transport hazard classes

ADR, ADN:	Class 3, hazard label 3
IMDG, IATA:	Class 3, label 3

14.4 Packaging group II

14.5 Environmental hazards Marine pollutant: NO

14.6 Special precautionary measures for the user

Caution:	Flammable liquid substances
Kemler number:	33
EMS number:	F-E, S-D

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OMEGA solvent welding agent THF

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Revised: 02.06.16

Version 1.0

Page 8 of 9

14.7 Bulk transport according to Annex II of the MARPOL Convention 73/78 and the IBC code

No data available.

Transport / further information:

ADR

Limited quantity (LQ) 1 L

Transport category 2

Tunnel restriction code D/E

UN "Model Regulation": UN2056, TETRAHYDROFURAN, 3, II

15. LEGAL REGULATIONS

15.1 Regulations for safety, health and environmental protection/ specific laws governing the substance or mixture

National regulations:

Classification according to Occupational Health and Safety Regulations (BetrSichV): Highly flammable

Water Hazard Class: WHC 1 (self-classification): weak water pollutant.

VOC content: Legal basis: Directive 1999/13/EC

VOC content: 100 %

15.2 Chemical safety assessment

A chemical safety assessment was carried out for this substance

15.3 REACH registration numbers

Tetrahydrofuran: 01-2119444314-46-0010

Cyclohexanone: 01-2119453616-35-XXX

16. OTHER INFORMATION

Usage restrictions recommended by the manufacturer

For commercial use only – not for the general public.

Abbreviations and acronyms:

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 Harmonized System of Classification and Labelling of Chemicals

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Sources: The information is based on information from sub-suppliers.

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OMEGA solvent welding agent THF

Date of creation: 20.06.2013

Revised: 02.06.16

Version 1.0

Page 9 of 9

Further information:

The information in this safety data sheet is based on our level of knowledge at the time of revision and serves to describe our products with regard to the safety precautions to be taken. It does not represent an assurance of the properties of the product described, a product information or a product specification, nor does it form the basis for a legal contractual relationship. The information in the safety data sheet cannot be transferred to other products. If the product named in this safety data sheet is blended, mixed or processed together with other materials, or subjected to processing, the information given in this safety data sheet cannot be transferred to the new material unless expressly stated otherwise.

The safety data sheet contains only safety-relevant information and does not replace any product information or product specification.

Department issuing the data sheet:

see chapter 1, informing department

GIS code: M-VM04 special thinner