

Product supplied by: Unit 4, The Sidings Station Road Guiseley LS20 8BX

according to Regulation (EC) No 1907/2006

Conductive Cold Liquid

Print date: 26/3/19

Product code: 1273400

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

1.1. Product identifier

Conductive Cold Liquid

Product group:

Liquid component

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

Use of the substance/mixture

Embedding material (liquid component) for material testing.

1.3. Details of the supplier of the safety data sheet

Company name:	Demotec Demel e.K.
Street:	Brentanostraße 22
Place:	D-61130 Nidderau
Telephone:	+49 (0)6187-905670
e-mail:	demotec@demotec.de
Contact person:	Alexander Demel
e-mail:	demotec@demotec.de
Internet:	www.demotec.de
4. Emergency telephone	Germany / Berlin +49 (0)30 - 19240

1.4. Emergency telephone

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) no. 1272/2008



Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

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



R37/38: Irritating to respiratory system and skin. Xi; Sensitising

R43 May cause sensitisation by skin contact

F; Highly flammable

R11 Highly Flammable

2.2. Label elements

Hazardous components which must be listed on the label

methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate

GB - EN

1,4-Butandiol dimethacrylate

Signal word:	
Pictograms:	

Danger GHS02-GHS07

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Hazard statements

H225	Highly flammable liquid and vapour.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H335	May cause respiratory irritation.	
ecautionary sta	atements	

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P240	Ground/bond container and receiving equipment.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
thar hazarda	

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture on basis of methyl methacrylate and accelerator.

Hazardous components

EC No CAS No Index No REACH No	Chemical name Classification according to Directive 67/548/EEC Classification according to Regulation (EC) No. 1272/2008 [CLP]	Quantity
201-297-1 80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate F - Highly flammable, Xi - Irritant R11-37/38-43	95 - < 100 %
01-2119452498-28	Flam. Liq. 1, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H224 H315 H317 H335	
218-218-1 2082-81-7	1,4-Butandiol dimethacrylate R43 Skin Sens. 1; H317	5 - < 10 %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.



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After contact with eyes

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

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Vapours can form explosive mixtures with air.



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Product code: 1273400 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage room and vessels.

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks open flames and other ignition sources. No smoking.

Advice on storage compatiblity

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

Embendding material

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³ fibres/m	Category	Origin
80-62-6	Methyl methacrylate	50	208	TWA (8 h)	WEL
		100	416	STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylprop	enoate; methyl metha	acrylate	
Worker DNE	L, long-term	inhalation		208 mg/m ³
Worker DNE	L, long-term	dermal		17 mg/kg bw/day

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection.



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Product code:1273400 SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	-	
Colour:	colourless		
Odour:	characteristic		
			Test method
pH-Value:		not determined	
Changes in the physical state			
Melting point:		-48 °C	
Initial boiling point and boiling range:		100,5 °C	
Flash point:		10 °C	
Flammability			
Solid:		not applicable	
Gas:		not applicable	
Lower explosion limits:		2,1 vol. %	
Upper explosion limits:		12,5 vol. %	
Ignition temperature:		421 °C	
Auto-ignition temperature			
Solid:		not applicable	
Gas:		not applicable	
Decomposition temperature:		not determined	
Oxidizing properties			
Not oxidizing.			
Vapour pressure: (at 20 °C)		36 hPa	
Density (at 15,5 °C):		0,949 g/cm ³	
Water solubility:		12,5 g/L	
(at 20 °C)			
Solubility in other solvents		not determine	4
Partition coefficient:			J
		1,38 0.52 mDo o	
Viscosity / dynamic: (at 20 °C)		0,53 mPa⋅s	
Vapour density: (at 20 °C)		3,5	
Evaporation rate:		not determined	
2. Other information			
Solid content:		not determined	

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable, Ignition hazard.



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10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

ATEmix tested

	Dose	Species	Source
LD50, oral	7870 mg/kg	Rat	
LD50, dermal	> 5000 mg/kg	Rabbit	
LC50, inhalative (vapour) (4	78 mg/l	Rat	
h)			

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
80-62-6	methyl 2-methylprop-2-enoate;	methyl 2-m	ethylpropenoate	e; methyl methacrylate	
	oral	LD50	>5000 mg/kg	Rat	OECD 401
	dermal	LD50	>5000 mg/kg	Rabbit	
	inhalative vapour	LC50	29,8 mg/l	Rat	
2082-81-7	1,4-Butandiol dimethacrylate				
	oral	LD50	> 10000	Rat	
		mg/kg			
	dermal	LD50	> 3000 mg/kg	Rabbit	

Irritation and corrosivity

Causes skin irritation.

Sensitising effects

May cause an allergic skin reaction. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate), (1,4-Butandiol dimethacrylate)

STOT-single exposure

May cause respiratory irritation. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)

Severe effects after repeated or prolonged exposure

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

Carcinogenic/mutagenic/toxic effects for reproduction



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

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

Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Acute (short-term) fish toxicity

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	[h] [d] Species S	Source
80-62-6	methyl 2-methylprop-2-eno	ate; methyl:	2-methylproper	noate; methyl methacrylate	
	Acute fish toxicity	LC50	> 79 mg/l	96 h Oncorhynchus mykiss C (Rainbow trout)	OECD 203
	Acute algae toxicity	ErC50	> 110 mg/l	72 h Selenastrum capricornutum C	OECD 201
	Acute crustacea toxicity	EC50	69 mg/l	48 h Daphnia magna (Big water C flea)	OECD 202
	Crustacea toxicity	NOEC	37 mg/l	21 d Daphnia magna (Big water C flea)	OECD 202
2082-81-7	1,4-Butandiol dimethacrylat	te			
	Acute fish toxicity	LC50	32,5 mg/l	96 h Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50	7,51 mg/l	48 h Daphnia magna (Big water C flea)	OECD 211
	Crustacea toxicity	NOEC	7,51 mg/l	Selenastrum capricornutum	

12.2. Persistence and degradability

Biodegradable.

12.3. Bioaccumulative potential

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	1,38
2082-81-7	1,4-Butandiol dimethacrylate	3,1

12.4. Mobility in soil

Mobility in soil: No adsoption in soil or sediment.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Limited quantity:Transport category:Hazard No:Tunnel restriction code:Other applicable information (land the sector)E2	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED 3 II 3 F1 1 L 2 339 D/E transport)
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Classification code: Limited quantity: Other applicable information (inland E2	3 II 3 F1 1 L d waterways transport)
Marine transport (IMDG)	
14.1. UN number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:EmS:Other applicable information (marin E2	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED 3 II 3 1 L F-E, S-D he transport)
Air transport (ICAO)	
<u>14.1. UN number:</u> 14.2. UN proper shipping name:	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED



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<u>14.3. Transport hazard class(es):</u>	3
14.4. Packing group:	II
Hazard label:	3
Limited quantity Passenger:	1 L
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	

Other applicable information (air transport)

E2

Passenger-LQ: Y341

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Combustible liquids.

14.7. Transport in bulk according to Annex II of MARPOL73/78 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 regulatory information

Additional information

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

National regulatory information

Employment restrictions:	Observe employment restrictions for young people. Observe employment
	restrictions for child bearing mothers and nursing.
Water contaminating class (D):	1 - slightly water contaminating
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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 EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

Relevant R-phrases (Number and full text)

11 Highly flammable.



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- 37/38 Irritating to respiratory system and skin.
- 43 May cause sensitisation by skin contact.

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

- Extremely flammable liquid and vapour. H224
- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- May cause an allergic skin reaction. H317
- May cause respiratory irritation. H335

Further Information

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.

he data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Conductive Cold Mounting System - 1273400