# **O** UnaveraChemLab

## UnaveraChemLab GmbH

### SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 27.11.2012 Print Date 05.02.2015 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

1.	IDENTIFICATION OF THE SU	JBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifiers Product name	4.4 Dimethol Queenter and		
	Flouuci name .	4,4-Dimethyl-2-pentanone		
	Product Number :	176		
	Brand : CAS-No. :	UnaveraChemLab GmbH 590-50-1		
1.2	Relevant identified uses of t	d uses of the substance or mixture and uses advised against		
	Identified uses :	Laboratory chemicals, Manufacture of substances		
1.3	.3 Details of the supplier of the safety data sheet			
	Company :	UnaveraChemLab GmbH Am Ländbach 20 D-82481 Mittenwald		
	Telephone :	+49 8823 1351		
	Fax : E-mail address :	+49 8823 3449 info@unavera.de		
1.4				
	Emergency Phone # :			
2.	HAZARDS IDENTIFICATION			
2.1	Classification of the substance or mixture			
	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Flammable liquids (Category 2)			
	Classification according to I Highly flammable.	EU Directives 67/548/EEC or 1999/45/EC		
2.2	Label elements			
	Labelling according Regulat Pictogram	tion (EC) No 1272/2008 [CLP]		
	Signal word	Danger		
	Hazard statement(s) H225	Highly flammable liquid and vapour.		
	Precautionary statement(s) P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.		
	Supplemental Hazard Statements	none		
	According to European Dire Hazard symbol(s)	ctive 67/548/EEC as amended.		

R-phrase(s) R11

Highly flammable.

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S-phrase(s)	
S16	Keep away from sources of ignition - No smoking.
S29	Do not empty into drains.
S33	Take precautionary measures against static discharges.

#### 2.3 Other hazards - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1	3.1 Substances Synonyms		: Methyl neopentyl keton	
	Formula Molecular Weight		C <sub>7</sub> H <sub>14</sub> O 114,19 g/mol	

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### **4.2** Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3 Indication of any immediate medical attention and special treatment needed** no data available

#### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

#### Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture Carbon oxides

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### 6.4 Reference to other sections

For disposal see section 13.

#### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smol

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### 7.3 Specific end uses

no data available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Body Protection**

impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid

	b)	Odour	no data available	
	c)	Odour Threshold	no data available	
	d)	рН	no data available	
	e)	Melting point/freezing point	no data available	
	f)	Initial boiling point and boiling range	125 - 130 °C - lit.	
	g)	Flash point	19 °C - closed cup	
	h)	Evaporation rate	no data available	
	i)	Flammability (solid, gas)	no data available	
	j)	Upper/lower flammability or explosive limits	no data available	
	k)	Vapour pressure	no data available	
	I)	Vapour density	no data available	
	m)	Relative density	0,809 g/cm3 at 25 °C	
	n)	Water solubility	no data available	
	o)	Partition coefficient: n- octanol/water	no data available	
	p)	Autoignition temperature	no data available	
	q)	Decomposition temperature	no data available	
	r)	Viscosity	no data available	
	s)	Explosive properties	no data available	
	t)	Oxidizing properties	no data available	
9.2	Other safety information no data available			
10.	STABILITY AND REACTIVITY			
10.1	Reactivity no data available			
10.2	Chemical stability no data available			
10.3	Possibility of hazardous reactions no data available			
10.4	Conditions to avoid			

- 10.4 Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight.
- 10.5 Incompatible materials Oxidizing agents, Reducing agents, Strong bases
- 10.6 Hazardous decomposition products Other decomposition products - no data available

#### 11. **TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

#### Acute toxicity no data available

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#### Skin corrosion/irritation

no data available

# Serious eye damage/eye irritation no data available

**Respiratory or skin sensitization** no data available

Germ cell mutagenicity no data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity no data available

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure

no data available

#### Aspiration hazard

no data available

#### Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eve irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: Not available

#### 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity no data available
- 12.2 Persistence and degradability no data available
- **12.3 Bioaccumulative potential** no data available
- **12.4** Mobility in soil no data available
- 12.5 Results of PBT and vPvB assessment no data available
- 12.6 Other adverse effects no data available

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14.	TRANSPORT INFORMATION				
14.1	<b>UN number</b> ADR/RID: 1224	IMDG: 1224	IATA: 1224		
14.2	UN proper shipping nameADR/RID:KETONES, LIQUID, N.O.S. (4,4-Dimethylpentan-2-one)IMDG:KETONES, LIQUID, N.O.S. (4,4-Dimethylpentan-2-one)IATA:Ketones, liquid, n.o.s. (4,4-Dimethylpentan-2-one)				
14.3	Transport hazard class(es) ADR/RID: 3	IMDG: 3	IATA: 3		
14.4	Packaging group ADR/RID: II	IMDG: II	IATA: II		
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no		
14.6	Special precautions for user no data available				
15.	REGULATORY INFORMATION				
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.				
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture no data available				
15.2	Chemical Safety Assessment no data available				
16.	OTHER INFORMATION				

#### **Further information**

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