

**H2O : DMSO 90:10 VOL %**

60156-200L

Version 1.2

Revision Date 11.04.2017

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

**1.1. Product identifier**

Product name : H2O : DMSO 90:10 VOL %  
SDS-number : 000000021488  
Type of product : Mixture  
Remarks : Document according to Art. 32 of Regulation (EC) 1907/2006.

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

Use of the Substance/Mixture : Laboratory chemicals  
Uses advised against : none

**1.3. Details of the supplier of the safety data sheet**

Company : Honeywell Specialty Chemicals Seelze GmbH  
Wunstorfer Straße 40  
30926 Seelze  
Germany  
Honeywell International, Inc.  
115 Tabor Road  
Morris Plains, NJ 07950-2546  
USA  
Telephone : (49) 5137-999 0  
Telefax : (49) 5137-999 123  
For further information, please contact: : PMTEU Product Stewardship:  
SafetyDataSheet@Honeywell.com

**1.4. Emergency telephone number**

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)  
+1-303-389-1414 (Medical)  
Country based Poison Control Center : see chapter 15.1

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture.

**2.2. Label elements**

**REGULATION (EC) No 1272/2008**

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Precautionary statements : P280

Wear protective gloves/ eye protection/  
face protection.

Not a hazardous substance or mixture.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Dimethyl sulfoxide	67-68-5 01-2119431362-50 200-664-3		>= 10 % - < 20 %	N.C.*

N.C.\* - Non-hazardous substance - for information only

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

Occupational Exposure Limit(s), if available, are listed in Section 8.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

*General advice:*

First aider needs to protect himself. Move out of dangerous area. Take off immediately all contaminated clothing.

*Inhalation:*

If breathed in, move person into fresh air. If symptoms persist, call a physician.

*Skin contact:*

After contact with skin, wash immediately with plenty of soap and water. If symptoms persist, call a physician.

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*Eye contact:*

Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a physician.

*Ingestion:*

When swallowed, allow water to be drunk. Call a physician immediately.

**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

See Section 11 for more detailed information on health effects and symptoms. :

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

*Suitable extinguishing media:*

Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

*Extinguishing media which shall not be used for safety reasons:*

High volume water jet

**5.2. Special hazards arising from the substance or mixture**

In case of fire hazardous decomposition products may be produced such as:

Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Sulphur oxides

**5.3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation.

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**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and materials for containment and cleaning up**

Soak up with inert absorbent material.  
Pick for disposal in tightly closed containers

**6.4. Reference to other sections**

For personal protection see section 8.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

*Advice on safe handling:*

Keep container tightly closed. Exhaust ventilation at the object is necessary.

*Advice on protection against fire and explosion:*

Normal measures for preventive fire protection.

*Hygiene measures:*

Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Wash hands before breaks and at the end of workday. When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities**

*Further information on storage conditions:*

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

**7.3. Specific end use(s)**

no additional data available

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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

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**DNEL/ PNEC-Values**

Component	End-use / Impact	Exposure duration	Value	Exposure routes	Remarks
Dimethyl sulfoxide	Workers / Long-term systemic effects		484 mg/m3	Inhalation	
Dimethyl sulfoxide	Workers / Long-term local effects		265 mg/m3	Inhalation	
Dimethyl sulfoxide	Workers / Long-term systemic effects		200mg/kg bw/d	Skin contact	
Dimethyl sulfoxide	Consumers / Long-term systemic effects		120 mg/m3	Inhalation	
Dimethyl sulfoxide	Consumers / Long-term local effects		47 mg/m3	Inhalation	
Dimethyl sulfoxide	Consumers / Long-term systemic effects		100mg/kg bw/d	Skin contact	
Dimethyl sulfoxide	Consumers / Long-term systemic effects		60mg/kg bw/d	Ingestion	

Component	Environmental compartment / Value	Remarks
Dimethyl sulfoxide	Fresh water: 17 mg/l	Assessment factor: 1000
Dimethyl sulfoxide	Marine water: 1,7 mg/l	Assessment factor: 10000
Dimethyl sulfoxide	Sewage treatment plant: 11 mg/l	
Dimethyl sulfoxide	Fresh water sediment: 13,4 mg/kg dw	
Dimethyl sulfoxide	Soil: 3,02 mg/kg dw	

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### 8.2. Exposure controls

#### Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, safety shoes EN-ISO 20345.

Do not breathe vapours or spray mist.

#### Engineering measures

Use with local exhaust ventilation.

#### Personal protective equipment

##### *Respiratory protection:*

In the case of vapour formation use a respirator with an approved filter.

##### *Hand protection:*

Glove material: Natural Latex

Break through time: > 480 min

Glove thickness: 1 mm

Combi-Latex 395

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

##### *Eye protection:*

Safety glasses with side-shields

##### *Skin and body protection:*

Wear suitable protective equipment.

#### Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

## SECTION 9: Physical and chemical properties

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

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Form	:	liquid
Colour	:	colourless
Odour	:	weak
molecular weight	:	78,13 g/mol
Melting point/range	:	no data available
Boiling point/boiling range	:	100 °C at 1.000 hPa
Flash point	:	Not applicable
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Density	:	ca. 11.000 g/cm <sup>3</sup> at 20 °C
Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	no data available

### 9.2 Other Information

no additional data available

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

No decomposition if used as directed.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

Protect from frost, heat and sunlight.  
Protect from moisture.

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### 10.5. Incompatible materials

Strong acids and oxidizing agents  
Halogenated compounds

### 10.6. Hazardous decomposition products

Sulphur oxides  
Carbon oxides

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

*Acute oral toxicity:*  
no data available

*Acute dermal toxicity:*  
no data available

*Acute inhalation toxicity:*  
no data available

*Skin irritation:*  
no data available

*Eye irritation:*  
no data available

*Respiratory or skin sensitisation:*  
no data available

*Repeated dose toxicity:*  
Note: no data available

*Carcinogenicity:*  
Note: no data available

*Germ cell mutagenicity:*  
Note: no data available

*Aspiration hazard:*  
no data available

*Other information:*  
no data available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

*Toxicity to fish:*

no data available

*Toxicity to aquatic plants:*

no data available

*Toxicity to aquatic invertebrates:*

no data available

#### 12.2. Persistence and degradability

*Biodegradability:*

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

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

*Product:*

Dispose according to legal requirements.

*Packaging:*

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

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For personal protection see section 8.

**SECTION 14: Transport information**

**ADR/RID**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**SECTION 15: Regulatory information**

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

**Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+35929154233
Croatia	(+3851)23-48-342
Cyprus	no data available
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	no data available
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	no data available
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240

Country	Phone Number
Latvia	+37167042473
Liechtenstein	no data available
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	no data available
Netherlands	030-2748888
Norway	22591300
Poland	no data available
Portugal	808250143
Romania	no data available
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	no data available
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
United Kingdom	no data available

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	Homburg : 06841/19240
	Mainz : 06131/19240
	Munich : 089/19240

### Other inventory information

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act  
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)  
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List  
On the inventory, or in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List  
On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act  
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances  
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand  
On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Further information

All directives and regulations refer to amended versions.  
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community

CAS Chemical Abstracts Service

DNEL Derived no effect level

PNEC Predicted no effect level

vPvB Very persistent and very bioaccumulative substance

PBT Persistent, bioaccumulative und toxic substance

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