Safety Data Sheet CryoSure DMSO



Safety Data Sheet CryoSure-DMSO in accordance to Regulation (EC) no.: 1907/2006 (REACH) and 1272/2008 (CLP)

Date of issue/last revision: 10/2018

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

1.1. Product identifier:

Name:	CryoSure-DMSO, Dimethyl Sulfoxide
Cat. No:	WAK-DMSO-10, WAK-DMSO-50, WAK-DMSO-70
CAS #:	67-68-5
MF:	C2H6OS
EU No.:	200-664-3
Molecular weight:	78.13 AMU

1.2. Relevant identified uses of the substance or mixture and uses advised against: Cryoprotectant for the cryopreservation of human cells and tissues for transplantation

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

	WAK-Chemie Medical GmbH Siemensstr. 9 61449 Steinbach/Ts Tel: +49 6171 2843 0 Fax: +49 6171 695 646 E-Mail: <u>info@wak-chemie.com</u>	Australian Distributor: Scientifix Pty Ltd F1/2A Westall Road Clayton, VIC 3168 Phone: 03 8540 5900 / Fax: +613 9543 7827 Web: www.scientifix.com.au
1.4. Emergency phone:	03 8540 5900 (on weekdays during office hours,	9 am – 5 pm AEDT)
SECTION 2: Hazards identifi	ication	

2.1 Classification of the substance or mixture:

2.1.1 Classification of the substance or mixture according to EC No 1272/2008: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label elements according to EC No 1272/2008:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other Hazards:

None known.

Section 3: Composition/information on ingredients

3.1. Substance:

Name	CAS No./ EC No.	concentration value	Classification according to Regulation (EC) No. 1272/2008 (CLP)	REACH Registration no.:
Dimethyl	67-68-5 /	≥ 99,9 %	Not classified	*
Sulfoxide (DMSO)	200-664-3			

* A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2. and 6. REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

3.2. Mixture:

This product is a substance.



Section 4: First aid measures

4.1. Description of first aid measures:

Eyes: Flush with running water for >15 minutes. Get medical attention if irritation develops.

Skin: Wash skin thoroughly with soap and water. Wash contaminated clothing before reuse. Get medical attention if irritation develops.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Inhalation: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention symptoms appear.

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

Section 5: Firefighting measures

5.1. Extinguishing media:

Adapt extinguishing measures to suit the environment. Suitable extinguishing media: water, "alcohol" foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture:

Carbon oxides, Sulphur oxides.

5.3. Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid all unnecessary exposure. Avoid breathing vapours, mist or gas. Remove all sources of ignition.

For non-emergency personnel: no additional information available no additional information available

6.2. Environmental precautions:

No additional information available.

6.3. Methods and materials for containment and cleaning up: Take up liquid spill into inert absorbent material. Clean thoroughly. Clean with water.

6.4. Reference to other sections:

For disposal see section 13.

Section 7: Handling and storage

7.1. Precautions for safe handling:

Avoid all unnecessary exposure. Keep away from sources of ignition. No smoking.

7.2. Conditions for safe storage, including any incompatibilities:

Store at 20°C – 30°C.

7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated



Section 8: Exposure controls/personal protection

8.1. Control parameters:

ingredient	CAS-No	Value	Parameters to be monitored	Basis
Dimethyl sulfoxide	67-68-5	OELs	160 mg/m3	Germany: TRGS 900 Limit values in the air at the workplace

8.2. Exposure controls:

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment

Eyes:	Wear chemical splash goggles.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Wear an appropriate approved air purifying respirator

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

property	value	At temperature or pressure	other
pH:	8.5		
Initial boiling point and boiling range	189°C		
Melting point/freezing point	18,4°C		
Flash point	87°C		Closed cup
Flammability	N/A		
Autoignition temperature	301°C		
Oxidising properties	N/A		
Explosive limits	lower: 3.5 %		
	Upper: 42 %	63 °C	
Vapour pressure	0.42 mmHg	20°C	
Specific Gravity:	1.1 g/cm3		
Partition coefficient: noctanol/water	Log pO/W: -2,03		
Viscosity	0,002 Pas	20 °C	
Vapour density	2.7 g/l		
Vapor concentration:			
Evaporation rate	N/A		
Bulk density:	N/A		
Decomposition temperature	> 190 °C		
Solvent content:	N/A		
Water content:	N/A		
Surface tension:	N/A		
conductivity:	N/A		
Solubility in water:	completely miscible		
Other solvents:	Alcohol, Ethyl Ethers		

9.2. Other information:

No additional information available.



Section 10: Stability and reactivity

10.1. Reactivity:

No data available.

10.2. Chemical stability:

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions:

No data available.

10.4. Conditions to avoid:

Heat, flames and sparks.

10.5. Incompatible materials:

Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents.

10.6. Hazardous decomposition products:

No data available.

Section 11: Toxicological Information

11.1 Information on toxicological effects:

LD50 Oral - Rat - 14.500 – 28.300 mg/kg
Mild skin irritation
No data available

Section 12: Ecological information

12.1. Toxicity:		
Test type: LC50 Fish	Test type: EC 50 Algen	
Species: Onchorhynchus mykiss	Species: Lepomis macrochirus	
Time: 96 h	Time: 96 h	
Value: 35,000 mg/l	Value: > 400,000 mg/l	
Test type: EC 50 Daphnien	Test type:: LC50 Fisch	
Species: Daphnia pulex	Species: Pimephales promelas	
Time: 96 h	Time: 96 h	
Value: 27,500 mg/l	Value: 34,000 mg/l	

12.2. Persistence and degradability:

31 % - substance is not readily biodegradable (OECD Test Guideline 301D).

12.3. Bioaccumulative potential:

Not data available.

12.4. Mobility in soil:

Not data available.

12.5. Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

Not data available.

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Section 13: Disposal considerations

13.1 Waste treatment methods:

13.1.1. Product/packaging disposal:

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.1.2 Waste treatment-relevant information:

Not data available.

13.1.3 Sewage disposal-relevant information: Not data available.

13.1.4 Other disposal recommendations:

Not data available.

Section 14: Transport information

14.1. UN class:

- 14.2. Proper shipping name:
- 14.3. Transport Hazard Class :
- 14.4. Packing group:

14.5. Environmental Hazard no.:

14.6. Special precautions for end user:

14.7. Transport in bulk according

to Annex II of MARPOL 73/78 and the IBC Code:

Not a hazardous substance or mixture. see sections 6. and 8.

Not a hazardous substance or mixture.

not applicable

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture: Labelling according EC No 1272/2008

15.2. Chemical safety assessment:

A chemical safety assessment is not required.

Section 16: Other information

16.1 Indication of changes

See sections: 1, 3 and 16.

Composed by:	Florian Pobitschka
Date of issue/last revision:	10/2018
Internal number:	L-02-040-02-0-04

16.2 Legend:

CAS:	Chemical Abstract Service Number
IBC-Code:	The International Building Code (IBC) is a model building code developed by the International
	Code Council (ICC).
LC:	lethal concentration
LD:	lethal dose
log Kow:	The ratio of the concentration of a solute between water and octanol
MARPOL:	International Convention for the Prevention of Pollution from Ships
PBT:	Persistent, bioaccumulative and toxic
RID:	Convention concerning International Carriage by Rail
UN:	United Nations
vPvB:	very persistent and very bioaccumulative

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16.3. References and data sources: Regulation: REACH- Regulation (EC) No. 1907/2006 CLP-Regulation (EC) No. 1272/2008

CLP-Regulation (EC) No. 1272/2008 Regulation (EC) No. 2015/830

Internet:

www.reach-clp-biozid-helpdesk.de https://echa.europa.eu http://www.reach-info.de

16.4 Methods according to Article 9 of the Regulation (EC) No 1272/2008 of the evaluation of data for classification purposes:

Classification in accordance with Regulation (EC) No 1272/2008, Annex VII (Conversion table)

16.5. Hazard statements

Not data available.

16.6 Training advice

For activities with this substance= no training required.

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