

# Dimethyl sulfoxide (DMSO), anhydrous

1. IDENTIFICATION	
Product code:	Catalog Number 4649 (Component B) Catalog Number 4766 (Component B)
Product name:	Dimethyl sulfoxide (DMSO), anhydrous
Unit size:	150 µL
Manufacturer/supplier:	Essen BioScience, Ltd. BioPark, Broadwater Road Welwyn Garden City, Hertfordshire AL7 3AX United Kingdom
Emergency contact:	+44 (0) 1707 358688
Fax contact:	+44 (0) 1707 358687

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. HAZARD IDENTIFICATION	
Emergency overview:	Components of the product may be absorbed into the body through the skin.
Form:	Liquid
Principle routes of exposure/Potential health effects	
Eyes:	Irritating to eyes.
Skin:	Components of the product may be absorbed into the body through the skin.
Inhalation:	May cause irritation of respiratory tract.
Ingestion:	May be harmful if swallowed.
Specific effects	
Carcinogenic effects:	No information available.
Mutagenic effects:	No information available.
Reproductive toxicity:	No information available.
Aggravated Medical Conditions:	Eyes. Skin.
HMIS:	
Sensitization:	1
Health:	2
Flammability:	1

3. COMPOSITION / INFORMATION ON INGREDIENTS			
Chemical name	CAS-No	EINECS-No	Weight %
Dimethylsulfoxide	67-68-5	200-664-3	60-100
Australian MSDS Statement	Classified according to the criteria of Worksafe Australia Classified as non-hazardous according to the criteria of Worksafe Australia.		

4. FIRST-AID MEASURES	
Skin contact:	Wash off immediately with plenty of water. If symptoms arise, call a physician.
Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Inhalation:	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to physician:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES	
<b>Includes important symptoms/effects, acute, delayed; required treatment.</b>	
Suitable extinguishing media:	Dry chemical.
Special protective equipment for fire fighters:	Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions:	Use personal protective equipment.
Methods for cleaning up:	Soak up with inert absorbent material.

7. HANDLING AND STORAGE	
Handling:	Avoid contact with skin and eyes.
Storage:	Keep in properly labeled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION				
Chemical name	Austria	Belgium (TWA)	Denmark (TWA)	Finland OEL (TWA):
Dimethylsulfoxide	160 mg/m <sup>3</sup> 50 ppm	–	160 mg/m <sup>3</sup> 50 ppm	–
Engineering measures:	Ensure adequate ventilation, especially in confined areas.			
Personal protective equipment:				
Respiratory protection:	Impervious butyl rubber gloves. Nitrile gloves are not recommended. Some brands of Nitrile gloves have breakthrough times of five minutes.			
Hand protection:	Impervious gloves.			
Eye protection:	Safety glasses with side-shields.			
Skin and body protection:	Lightweight protective clothing.			
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.			

9. PHYSICAL AND CHEMICAL PROPERTIES		
General information:		
Form:	Liquid.	
Important health and safety environmental information:		
Boiling point:	189°C	°F: No data available
Melting point/range:	18.4°C	°F: No data available
Flash point:	94°C	°F: No data available
Autoignition temperature:	No information available.	°F: No data available
Oxidizing properties:	No information available.	
Water solubility:	Soluble.	

10. STABILITY AND REACTIVITY						
Stability:	Stable under normal conditions.					
Materials to avoid:	No information available.					
Hazardous decomposition products:	No information available.					
Polymerization:	Hazardous polymerization does not occur.					
11. TOXICOLOGICAL INFORMATION						
Chemical name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LD50 (inhalation, rat, mouse)			
Dimethylsulfoxide	No data available.	No data available.	No data available.			
Principle routes of exposure/potential health effects						
Eyes:	Irritating to eyes.					
Skin:	Components of the product may be absorbed into the body through the skin.					
Inhalation:	May cause irritation of respiratory tract.					
Ingestion:	May be harmful if swallowed.					
Specific effects (Long Term Effects)						
Carcinogenic effects:	No information available.					
Mutagenic effects:	No information available.					
Reproductive toxicity:	No information available.					
Sensitization:	No information available.					
12. ECOLOGICAL INFORMATION						
Ecotoxicity effects:	No information available.					
Mobility:	No information available.					
Bioaccumulation:	Inherently biodegradable.					
Bioaccumulation:	Does not bioaccumulate.					
13. DISPOSAL CONSIDERATIONS						
14. TRANSPORT INFORMATION						
Proper shipping name:	Not classified as dangerous in the meaning of transport regulations.					
Hazard class:	No information available.					
Subsidiary class:	No information available.					
Packing group:	No information available.					
UN-No:	No information available.					
15. REGULATORY INFORMATION						
Indication of danger:	Skin Absorption. Components of the product may be absorbed into the body through the skin.					
R-phrase(s):	No information available.					
S-phrase(s):	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/39 - Wear suitable protective clothing and eye/face protection.					
International Inventories						
Chemical name	TSCA	PICCS	ENCS	DSL	NDSL	AICS
Dimethylsulfoxide	Listed	Listed	Listed	—	Listed	Listed

14. TRANSPORTATION INFORMATION	
Date of preparation:	May 19, 2016
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**END OF SAFETY DATA SHEET**