

/ersion 1.5 Revision Date 03/25/2015	Print Date 05/08/20
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION Product name : Dimethyl Sulfoxide MSDS Number : 000000011715 Product Use Description : Solvent Manufactured for : VWR International LLC Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087	Print Date 05/08/20
ECTION 1. PRODUCT AND COMPANY IDENTIFICATION Product name : Dimethyl Sulfoxide MSDS Number : 000000011715 Product Use Description : Solvent Manufactured for : VWR International LLC Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087	Print Date 05/08/20
Product name:Dimethyl SulfoxideMSDS Number:000000011715Product Use Description:SolventManufactured for:VWR International LLC Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087	
Product name:Dimethyl SulfoxideMSDS Number:000000011715Product Use Description:SolventManufactured for:VWR International LLC Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087	
Product name:Dimethyl SulfoxideMSDS Number:000000011715Product Use Description:SolventManufactured for:VWR International LLC Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087	
MSDS Number:000000011715Product Use Description:SolventManufactured for:VWR International LLC Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087	
Product Use Description:SolventManufactured for:VWR International LLC Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087	
Manufactured for : VWR International LLC Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087	
Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087	
Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087	
Building One Suite 200 100 Matsonford Road Radnor PA 19087	
Suite 200 100 Matsonford Road Radnor PA 19087	
Radnor PA 19087	
For more information call : (Monday-Friday 8 00am-5:00pm	
1-800-932-5000))
In case of emergency call : (24 hours/day, 7 days/week)	
1-800-424-9300(USA Only) For Transportation Emergenci	ies:
1-800-424-9300 (CHEMTREC -	Domestic)
1-613-996-6666 (CANUTEC - C	anada)
ECTION 2. HAZARDS IDENTIFICATION	
Emergency Overview	
Form : liquid	
Color : colourless	
Odor : garlic/onion	
Page 1 / 13	
Page 1713	



Dimethyl Sulfoxide				
3DH1115				
Version 1.5		Revision Date 03/25/2015	Print Date 05/08/2015	
Classification of the substa				
Classification of the substance or mixture	e :	Flammable liquids, Category 4		
GHS Label elements, includ	ling	precautionary statements		
Signal word	:	Warning		
Hazard statements	:	Combustible liquid		
Precautionary statements	:	Prevention: Keep away from heat/sparks/open f smoking. Wear protective gloves/ eye protect		
		Response: In case of fire: Use dry sand, dry ch foam for extinction.	emical or alcohol-resistant	
		Storage: Store in a well-ventilated place. Kee	ep cool.	
		Disposal: Dispose of contents/container in act federal regulations.	cordance with local, state &	
Hazards not otherwise classified	:	May cause eye and skin irritation.		
Carcinogenicity				
No component of this product present at levels greater than or equal to 0.1% is identified as a known o anticipated carcinogen by NTP, IARC, or OSHA.				
SECTION 3. COMPOSITION/INFO	ORM	IATION ON INGREDIENTS		
Formula	:	C2H6OS		
		Page 2 / 13		



Dimethyl Sulfoxide					
BDH1115					
Version 1.5		Revision Date 03/25/2015	Print Date 05/08/2015		
Chemical nature		Substance			
Chemical N	am	e CAS-No.	Concentration		
Dimethyl sulfoxide		67-68-5	100.00 %		
SECTION 4. FIRST AID MEASUR	ECTION 4. FIRST AID MEASURES				
Inhalation	:	Remove to fresh air. If not breathing, g breathing is difficult, give oxygen. Use provided a qualified operator is presen	oxygen as required,		
Skin contact	:	Wash off immediately with plenty of wa minutes. Take off contaminated clothin Wash contaminated clothing before re irritation develops or persists.	g and shoes immediately.		
Eye contact	:	Rinse immediately with plenty of water for at least 15 minutes. Call a physicia persists.			
Ingestion	:	Do not induce vomiting without medica anything by mouth to an unconscious			
Notes to physician					
Treatment	:	Treat symptomatically.			
SECTION 5. FIREFIGHTING MEA	SI	IRES			
Suitable extinguishing media		Carbon dioxide (CO2) Dry chemical Foam Cool closed containers exposed to fire	e with water spray.		
Unsuitable extinguishing media		Do not use a solid water stream as it fire.	may scatter and spread		
		Page 3 / 13			



DH1115		
ersion 1.5	Revision Date 03/25/2015	Print Date 05/08/20
Specific hazards during firefighting	: Combustible. Vapours may form explosive mixture Vapours are heavier than air and ma Vapors may travel to areas away fro igniting/flashing back to vapor source In case of fire hazardous decomposi produced such as: Formaldehyde Methyl mercaptan Sulfur dioxide Carbon dioxide (CO2) Carbon monoxide	ay spread along floors. m work site before e.
Special protective equipment for firefighters	t : Wear self-contained breathing appar	ratus and protective suit.
CTION 6. ACCIDENTAL RELI	EASE MEASURES	
CTION 6. ACCIDENTAL RELI Personal precautions	 EASE MEASURES Wear personal protective equipment. Immediately evacuate personnel to sa Keep people away from and upwind of Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clot 	of spill/leak.
	: Wear personal protective equipment. Immediately evacuate personnel to sa Keep people away from and upwind o Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Avoid breathing vapours, mist or gas.	of spill/leak. thing. safe to do so. be avoided. itary sewer system.
Personal precautions	 Wear personal protective equipment. Immediately evacuate personnel to sa Keep people away from and upwind of Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clot Prevent further leakage or spillage if s Prevent product from entering drains. Discharge into the environment must Do not flush into surface water or san Do not allow run-off from fire fighting from 	of spill/leak. ching. safe to do so. be avoided. itary sewer system. to enter drains or water



H1115			
sion 1.5	Revision Date 03/25/	2015	Print Date 05/08/2
	material, (e.g. sand, ear transfer to a container f regulations (see sectior	or disposal accord	
TION 7. HANDLING AND ST	RAGE		
Handling			
Handling	Wear personal protectiv Use only in well-ventilat Keep container tightly c Do not smoke. Do not swallow. Avoid breathing vapour Avoid contact with skin,	ed areas. losed. s, mist or gas.	g.
Advice on protection against fire and explosion	Keep away from fire, sp Take precautionary mea Ensure all equipment is transfer operations. Use explosion-proof eq Keep product and empt of ignition. No sparking tools shoul No smoking.	asures against sta electrically grour uipment. y container away	atic discharges. nded before beginning
Storage			
Requirements for storage areas and containers	Store in area designed from physical damage. Keep containers tightly place. Containers which are of kept upright to prevent Keep away from heat a Keep away from direct Store away from incom Container hazardous w Do not pressurize, cut, v containers to heat or so	closed in a dry, co pened must be ca leakage. nd sources of ign sunlight. patible substance hen empty. weld, braze, solde	ool and well-ventilated arefully resealed and ition. s.
	Page 5 / 13		



Dimethyl Sulfoxide

BDH1115

Version 1.5

Revision Date 03/25/2015

Print Date 05/08/2015

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures	:	Ensure that eyewash stations and safety showers are close to the workstation location.
Engineering measures	:	Use with local exhaust ventilation. Prevent vapour buildup by providing adequate ventilation during and after use.
Eye protection	:	Do not wear contact lenses. Wear as appropriate: Safety glasses with side-shields If splashes are likely to occur, wear: Goggles or face shield, giving complete protection to eyes
Hand protection	:	Solvent-resistant gloves Gloves must be inspected prior to use. Replace when worn.
Skin and body protection	:	Wear as appropriate: Solvent-resistant apron Flame retardant antistatic protective clothing. If splashes are likely to occur, wear: Protective suit
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment. For rescue and maintenance work in storage tanks use self-contained breathing apparatus. Use NIOSH approved respiratory protection.
Hygiene measures	:	When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Remove and wash contaminated clothing before re-use. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing.
		Page 6 / 13



Dimethyl Sulfoxide

BDH1115

Version 1.5

Revision Date 03/25/2015

Print Date 05/08/2015

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Upda te	Basis
Dimethyl sulfoxide	67-68-5	TWA : time weighted average	(250 ppm)	2007	WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: colourless
Odor	: garlic/onion
рН	: Note: Not applicable
Melting point/freezing point	: 18.5 ℃
Boiling point/boiling range	: 189 ℃
Flash point	: 190 ℉ (88 ℃) Method: closed cup
Lower explosion limit	: 2 %(V)
Upper explosion limit	: 42 %(V)
Vapor pressure	: 0.61 hPa at 20 ℃(68 ℉)
	Page 7 / 13



Dimethyl Sulfoxide		
BDH1115		
Version 1.5	Revision Date 03/25/201	5 Print Date 05/08/2015
Vapor density	: 2.7	
Density	: 1.1004 g/cm3 at 20 ℃	
Density	-	
	1.0954 g/cm3 at 25 ℃	
Water solubility	: Note: soluble	
Ignition temperature	: 215 ℃	
SECTION 10. STABILITY AND R		
Chemical stability	: Stable under recommende	ed storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation	i does not occur.
Incompatible materials to	: Oxidizing agents	
avoid	Strong acids Reducing agents	
	Alkali metals Boron compounds	
	Plastics	
	Metal salts of oxoacids Acyl halides	
	Aryl halides Non metal halides	
	Methyl bromide	
	Non-metallic chlorides Active halogen compound	ls
Hazardous decomposition products	: Hazardous decomposition combustion	n products due to incomplete
	Page 8 / 13	



		VWR ANALYTIC
nethyl Sulfoxide		
H1115		
sion 1.5	Revision Date 03/25/2015	Print Date 05/08/2
	Formaldehyde	
	Sulphur dioxide Methyl mercaptan	
	Carbon dioxide (CO2)	
	Carbon monoxide	
CTION 11. TOXICOLOGICA		
Acute oral toxicity	: LD50: 14,500 mg/kg	
	Species: Rat	
Acute inhalation toxicity	: LC0: > 5,330 mg/m3	
	Exposure time: 4 h Species: Rat	
	Note: No deaths	
Acute dermal toxicity	: LD50: 40,000 mg/kg	
	Species: Rat	
Skin irritation	: Species: Rabbit	
	Result: slight irritation Method: OECD Test Guideline 404	
	Exposure time: 4 h	
Eye irritation	: Species: Rabbit	
	Result: slight irritation Method: OECD Test Guideline 405	
Sensitisation	: Maximisation Test	
	Species: Guinea pig Result: Did not cause sensitisation of	on laboratory animals.
Repeated dose toxicity	: Species: Rat, male	
	Page 9 / 13	



		VWR ANALYTICAL
imethyl Sulfoxide		
BDH1115		
ersion 1.5	Revision Date 03/25/2015	Print Date 05/08/201
	Application Route: Inhalation Exposure time: 2 Weeks No observed adverse effect level:	1100 mg/kg
ECTION 12. ECOLOGICAL INFO	PRMATION	
Ecotoxicity effects		
Toxicity to fish	: flow-through test LC50: 34,000 mg/l Exposure time: 96 h Species: Pimephales promelas (fai Note: static test	thead minnow)
	 static test LC50: 40,000 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Blu Note: static test 	uegill sunfish)
Toxicity to daphnia and other aquatic invertebrates	: static test LC50: 24,600 mg/l Exposure time: 48 h Species: Daphnia magna (Water fl	ea)
Further information on ecolo	ogy	
ECTION 13. DISPOSAL CONSID	ERATIONS	
Disposal methods	: Dispose of contents/ container in a and federal regulations.	accordance with local, state,
	Page 10 / 13	



Dimethyl Sulfoxide

BDH1115

DOT

Version 1.5

Revision Date 03/25/2015

Print Date 05/08/2015

SECTION 14. TRANSPORT INFORMATION

- UN/ID No. : NA 1993 Proper shipping name : Combustible liquid, n.o.s. (Dimethyl sulfoxide) Class CBL Packing group III Hazard Labels NONE Required only for US-DOT Bulk Shipments
- **TDG** Not dangerous goods
- IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Inventories

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	:	On the inventory, or in compliance with the inventory
		Page 11 / 13



Dimethyl Sulfoxide			
BDH1115			
Version 1.5		Revision Date 03/25/2015	Print Date 05/08/2015
and Nuclear Waste Control Act			
China. Inventory of Existing Chemical Substances	:	On the inventory, or in compliance with	1 the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance with	ו the inventory
National regulatory informa	atic	n	
SARA 302 Components	:	No chemicals in this material are subje requirements of SARA Title III, Section	
SARA 313 Components	:	This material does not contain any che known CAS numbers that exceed the reporting levels established by SARA	threshold (De Minimis)
SARA 311/312 Hazards	:	Fire Hazard Acute Health Hazard	
California Prop. 65	:	This product does not contain any che California to cause cancer, birth defect reproductive harm.	
WHMIS Classification	:	B3: Combustible Liquid This product has been classified accor of the CPR and the MSDS contains all by the CPR.	
		Page 12 / 13	



Dimethyl Sulfoxide

BDH1115

Version 1.5

Revision Date 03/25/2015

Print Date 05/08/2015

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	2
Flammability	: 2	2
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 06/19/2012

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group