

Methanol

BDH1135

Version 1.5

Revision Date 03/26/2015

Print Date 05/08/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Methanol
MSDS Number	:	00000011700
Product Use Description	:	Solvent
Manufactured for	:	VWR International LLC Radnor Corporate Center Building One Suite 200

		100 Matsonford Road 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 Emergencies:

1-800-424-9300 (CHEMTREC - Domestic) 1-613-996-6666 (CANUTEC - Canada)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form	: liquid, clear
Color	: colourless
Odor	: slight alcohol-like

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SIOTI 1.5	Revision Date 03/20/2015	Pfint Date 05/08/2
Classification of the substa	nce or mixture	
Classification of the substance or mixture	e : Flammable liquids, Category 2 Eye irritation, Category 2A Reproductive toxicity, Category 2 Specific target organ toxicity - sin Eyes, Nervous system, Systemic	ngle exposure, Category 1,
GHS Label elements, includ	ing precautionary statements	
Symbol(s)		
Signal word	: Danger	
Hazard statements	: Highly flammable liquid and vapor Causes serious eye irritation. Suspected of damaging fertility of Causes damage to organs.	
Precautionary statements	 Prevention: Obtain special instructions befor Do not handle until all safety pre- understood. Keep away from heat/sparks/ope smoking. Keep container tightly closed. Ground/bond container and rece Use explosion-proof electrical/ vu Use only non-sparking tools. Take precautionary measures ag Do not breathe dust/ fume/ gas/ Wash skin thoroughly after hand Do not eat, drink or smoke when Wear protective gloves/ eye protective 	cautions have been read and en flames/hot surfaces No eiving equipment. entilating/ lighting/ equipment. gainst static discharge. mist/ vapours/ spray. lling. u using this product.
	Response: IF ON SKIN (or hair): Remove/ 1 contaminated clothing. Rinse ski	
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	Remove contact rinsing. IF exposed: Ca If eye irritation p In case of fire: I foam for extinct Storage: Store in a well- Store locked up Disposal: Dispose of cont	et lenses, if present and ll a POISON CENTER persists: Get medical a Jse dry sand, dry chen ion. ventilated place. Keep o.	dvice/ attention. nical or alcohol-resistant
	federal regulation	ons.	
Carcinogenicity No component of this produc anticipated carcinogen by N ⁻		ter than or equal to 0.1	% is identified as a known or
SECTION 3. COMPOSITION/IN	FORMATION ON INGE	REDIENTS	
Formula	: CH4O		
Chemical nature	: Substance		
Chemical	Name	CAS-No.	Concentration
Methanol		67-56-1	100.00 %
SECTION 4. FIRST AID MEASU	IRES		
Inhalation	breathing, give a	gen as required, provid	o fresh air. If not eathing is difficult, give ed a qualified operator is
	i age 07		



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Skin contact	:	Wash off immediately with plenty of wate minutes. Take off contaminated clothing Wash contaminated clothing before re-u	and shoes immediately.
Eye contact	:	Rinse immediately with plenty of water, a for at least 15 minutes. Call a physician.	
Ingestion	:	Call a physician immediately. Do NOT ir Immediate medical attention is required. mouth to an unconscious person.	
Notes to physician			
Treatment	:	Treat symptomatically.	
ECTION 5. FIREFIGHTING MEA	ASU	RES	
Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Cool closed containers exposed to fire	with water spray.
Unsuitable extinguishing media	:	Do not use a solid water stream as it m fire.	ay scatter and spread
Specific hazards during firefighting	:	Flammable. Vapours may form explosive mixtures of Vapours are heavier than air and may so Vapors may travel to areas away from a igniting/flashing back to vapor source. In case of fire hazardous decomposition produced such as: Carbon monoxide Carbon dioxide (CO2) Formaldehyde	spread along floors. work site before
Special protective equipment for firefighters	:	Wear self-contained breathing apparate	us and protective suit.
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ECTION 6. ACCIDENTAL RELI	EASE MEASURES	
Personal precautions	 Wear personal protective equipment. Immediately evacuate personnel to saf Keep people away from and upwind of Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and cloth 	spill/leak.
Environmental precautions	: Prevent further leakage or spillage if sa Prevent product from entering drains. Discharge into the environment must b Do not flush into surface water or sanit Do not allow run-off from fire fighting to courses.	e avoided. ary sewer system.
Methods for cleaning up	: Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Contain spillage, soak up with non-com material, (e.g. sand, earth, diatomaceous transfer to a container for disposal accor regulations (see section 13).	us earth, vermiculite) and
ECTION 7. HANDLING AND ST	ORAGE	
Handling		
Handling	 Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and cloth 	ing.
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Advice on protection agains fire and explosion	t :	Keep away from fire, sparks and heater Take precautionary measures against Ensure all equipment is electrically gro transfer operations. Use explosion-proof equipment. Keep product and empty container awar of ignition. No sparking tools should be used. No smoking.	static discharges. bunded before beginning
Storage			
Requirements for storage areas and containers	:	Store in area designed for storage of fl from physical damage. Keep containers tightly closed in a dry place. Containers which are opened must be kept upright to prevent leakage. Keep away from heat and sources of it Keep away from direct sunlight. Store away from incompatible substan Container hazardous when empty. Do not pressurize, cut, weld, braze, so containers to heat or sources of ignitio	, cool and well-ventilated carefully resealed and gnition. ces. lder, drill, grind or expose
		_S/PERSONAL PROTECTION	
Protective measures	:	Ensure that eyewash stations and safe the workstation location.	ety showers are close to
Engineering measures	:	Use with local exhaust ventilation. Prevent vapour buildup by providing ac and after use.	dequate ventilation during
Eye protection	:	Do not wear contact lenses. Wear as appropriate: Safety glasses with side-shields If splashes are likely to occur, wear:	
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		Goggles or face shield, giving complete	e 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 clo If splashes are likely to occur, wear: Protective suit	othing.
Respiratory protection	:	In case of insufficient ventilation, wear equipment. For rescue and maintenance work in st self-contained breathing apparatus. Use NIOSH approved respiratory prote	orage tanks use
Hygiene measures	:	When using do not eat, drink or smoke Wash hands before breaks and immed product. Keep working clothes separately. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothi This material has an established AIHA The current list of ERPG exposure limit http://www.aiha.org/insideaiha/Guidelin ocuments/2011erpgweelhandbook_tab	iately after handling the ing. ERPG exposure limit. is can be found at ieDevelopment/ERPG/D

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Upda te	Basis
Methanol	67-56-1	TWA : time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values



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Evaporation rate	: ca. 5 Method: Compared to Butyl acetate.	
Lower explosion limit	: 6 %(V)	
Upper explosion limit	: 36 %(V)	
Vapor pressure	: 129.32 hPa at 20 ℃(68 ℉)	
Vapor density	: 1.11 Note: (Air = 1.0)	
Density	: 0.792 g/cm3 at 20 °C	
Water solubility	: Note: completely soluble	
Ignition temperature	: 464 ℃	
Molecular weight	: 34.04 g/mol	
ECTION 10. STABILITY AND	REACTIVITY	
Chemical stability	: Stable under recommended storage c	onditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not or	
Conditions to avoid	: Heat, flames and sparks.	
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	Keep away from direct sunlight.	
Incompatible materials to avoid	: Strong oxidizing agents Aluminium Magnesium May attack many plastics, rubbers an	nd coatings.
Hazardous decomposition products	 In case of fire hazardous decomposit produced such as: Carbon monoxide Carbon dioxide (CO2) Formaldehyde 	ion products may be
ECTION 11. TOXICOLOGICAL	. INFORMATION	
Acute oral toxicity	: LD50: 5,628 mg/kg Species: Rat	
Acute inhalation toxicity	: LC50: 64000 ppm Exposure time: 4 h Species: Rat	
Acute dermal toxicity	: LD50: 15,800 mg/kg Species: Rabbit	
Skin irritation	: Species: Rabbit Classification: irritating Exposure time: 24 h	
Eye irritation	: Species: rabbit eye Classification: irritating	
Repeated dose toxicity	: Species: Rat Application Route: Inhalation	
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	Test substance: Methanol Note: Developmental Toxicity NOAE 10,000 ppm NOAEL (developmenta Skeletal and visceral malformations	l toxicity) 5,000 ppm
Genotoxicity in vitro Methanol	: Note: In vitro tests did not show mu	tagenic effects
Genotoxicity in vivo Methanol	: Note: In vivo tests did not show mut	agenic effects
Ecotoxicity effects		
Ecotoxicity effects Toxicity to fish	: LC50: 29,400 mg/l Exposure time: 96 h Species: Fathead minnow	
-	Exposure time: 96 h	
Toxicity to fish Toxicity to daphnia and other	Exposure time: 96 h Species: Fathead minnow : LC50: 10,000 mg/l Exposure time: 24 h	eum
Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	 Exposure time: 96 h Species: Fathead minnow LC50: 10,000 mg/l Exposure time: 24 h Species: Daphnia (water flea) EC50: 43,000 mg/l Exposure time: 5 min 	
Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	 Exposure time: 96 h Species: Fathead minnow LC50: 10,000 mg/l Exposure time: 24 h Species: Daphnia (water flea) EC50: 43,000 mg/l Exposure time: 5 min Species: Photobacterium phosphore EC50: 40,000 mg/l Exposure time: 15 min 	



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	Spec	ies: Photobacterium phosphor	eum	
Further i	nformation on ecology			
Additiona informatio		cumulation in aquatic organisms is unlikely. e product is readily degradable in the environment.		
ECTION 13.	DISPOSAL CONSIDERATIO	NS		
Disposal		ose of contents/ container in ac ederal regulations.	ccordance with local, state,	
ECTION 14.	TRANSPORT INFORMATION	ı		
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels	: UN 1230 : METHANOL 3 II 3		
ΙΑΤΑ	UN/ID No. Description of the goods Class Packaging group Hazard Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: UN 1230 : METHANOL : 3 : II : 3 (6.1) : 364 : 352 : Y341		
	UN/ID No. Description of the goods Class	: UN 1230 : METHANOL : 3		



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EmS Number Marine pollutant	: F-E, S-D : no				
SECTION 15. REGULATORY INF	ORMATION				
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 C	anadian 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			
National regulatory information					
US. EPA CERCLA	: The following component(s) of this product	is/are subject to			
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Hazardous Substances (40 CFR 302)	release reporting under 40 Cl Reportable Quantity (RQ): Reportable quantity: 5000 lbs	FR 302 when release exceeds the	
	: Methanol	67-56-1	
SARA 302 Components		No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313 Components	The following components are subject to reporting levels established by SARA Title III, Section 313: Methanol 67-56-1		
SARA 311/312 Hazards	: Fire Hazard Acute Health Hazard Chronic Health Hazard		
CERCLA Reportable Quantity	: 5000 lbs		
California Prop. 65		ains a chemical known to the State fects or other reproductive harm. 67-56-1	
Massachusetts RTK	: Methanol	67-56-1	
New Jersey RTK	: Methanol	67-56-1	
Pennsylvania RTK	: Methanol	67-56-1	
WHMIS Classification	 B2: Flammable liquid D1B: Toxic Material Causing Immediate and Serious Toxic Effects D2A: Very Toxic Material Causing Other Toxic Effects D2B: Toxic Material Causing Other Toxic Effects This product has been classified according to the hazard criteria 		
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Methanol BDH1135 Print Date 05/08/2015 Version 1.5 Revision Date 03/26/2015 of the CPR and the MSDS contains all of the information required by the CPR. SECTION 16. OTHER INFORMATION HMIS III **NFPA** Health hazard : 2* 1 Flammability 3 : 3 Physical Hazard : 0 Instability 0 : * - Chronic health hazard 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: 06/20/2012 Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group