

Methanol

179337-6X1L Version 1.1

Revision Date 08/10/2018

Print Date 06/01/2023

SECTION 1. IDENTIFICATION

Product name	:	Methanol
Number	:	00000020240
Product Use Description	:	Laboratory chemicals
Manufacturer or supplier's details	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 Seelze, 30926
For more information call	:	1-800-368-0050 +1-231-726-3171
		(Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	Medical: 1-800-498-5701 or +1-303-389-1414 Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887
	:	(24 hours/day, 7 days/week)
SECTION 2. HAZARDS IDENTIF		TION
Emergency Overview		
Form		: liquid
Color	:	colourless
Odor	:	characteristic
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Honeywe SAFETY DATA SHEET Riedel-de Haën™ **Methanol** 179337-6X1L Revision Date 08/10/2018 Print Date 06/01/2023 Version 1.1 Classification of the substance or mixture Classification of the substance : Flammable liquids, Category 2 Specific target organ toxicity - single exposure, Category 1, or mixture Eyes, Nervous system, Systemic toxicity GHS Label elements, including precautionary statements Symbol(s) Signal word : Danger : Highly flammable liquid and vapour. Hazard statements Causes damage to organs. : Prevention: Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. **Response:** IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF exposed: Call a POISON CENTER or doctor/ physician. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Page 2 / 17



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			Storage:		
			Store in a well-ventila Store locked up.	ted place. Keep	cool.
			Disposal:		
			Dispose of contents/ operation plant.	container to an a	pproved waste disposal
	Hazards not otherwise		: Repeated or prolonge	ed exposure may	v irritate eyes, skin and
	classified		respiratory system.		
	Carcinogenicity				
	Carcinogenicity				
	No component of this product p anticipated carcinogen by NTP			an or equal to 0.1	% is identified as a known o
SE	CTION 3. COMPOSITION/INFO	RI	MATION ON INGREDIE	NTS	
-					
	Formula	:	CH4O		
	Chemical nature	:	Substance		
	Chemical na	am	e	CAS-No.	Concentration
	Methanol			67-56-1	<=100.00 %
SE	CTION 4. FIRST AID MEASUR	FS			
		-0			
	General advice	:	First aider needs to pro area. Take off all conta safety data sheet to the	minated clothing	immediately. Show this
	Inhalation	:	Call a physician immed	iately. Remove t	o fresh air. If not
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		breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present.
Skin contact	:	After contact with skin, wash immediately with plenty of water. Call a physician immediately.
Eye contact	:	Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Call a physician immediately.
Ingestion	:	Immediately give large quantities of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.
TION 5. FIREFIGHTING MEA	SI	JRES
Suitable extinguishing media		: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media		: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting		 Flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Vapors may travel to areas away from work site before igniting/flashing back to vapor source. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2) Formaldehyde
Special protective equipment for firefighters		: Wear self-contained breathing apparatus and protective suit.
Further information		: Use water spray to cool unopened containers.
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		Use extinguishing measures that are a circumstances and the surrounding en	
SECTION 6. ACCIDENTAL RELE	AS	SE MEASURES	
Personal precautions, protective equipment and emergency procedures	:	Ensure adequate ventilation. Remove all sources of ignition. Wear personal protective equipment. L must be kept away.	Inprotected persons
Environmental precautions	:	Prevent further leakage or spillage if sat Prevent product from entering drains. Discharge into the environment must be Do not flush into surface water or sanita Do not allow run-off from fire fighting to courses.	e avoided. ary sewer system.
Methods and materials for containment and 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, diatomaceou transfer to a container for disposal acco regulations (see section 13).	is earth, vermiculite) and
SECTION 7. HANDLING AND ST	OF	AGE	
Handling			
Precautions for safe handling	:	Exhaust ventilation at the object is nece Use explosion-proof equipment. Wear suitable protective clothing and gl	-
Advice on protection against fire and explosion	:	The heavy vapours can overcome a cor the source of ignition. Use only in explosion-proof areas. Keep product and empty container away of ignition.	
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	Take necessary action to avoid s (which might cause ignition of or	
Storage		
Conditions for safe storage, including any incompatibilities	 Store in area designed for storag from physical damage. Keep containers tightly closed in place. Store in original container. Keep locked up or in an area acc authorised persons. 	a dry, cool and well-ventilated
Further information on storage conditions	: Product is hygroscopic.	
CTION 8. EXPOSURE CONTI	OLS/PERSONAL PROTECTION	
Protective measures	 Ensure that eyewash stations an the workstation location. Legal requirements are to be cor selection, use and care of perso 	nsidered in regard of the
	Do not swallow. Do not breathe vapours or spray	mist.
Engineering measures		n.
Engineering measures Eye protection	Do not breathe vapours or sprayUse with local exhaust ventilation Electrical equipment should be p	n.
	 Do not breathe vapours or spray Use with local exhaust ventilation Electrical equipment should be p standard. 	n. rotected to the appropriate
Eye protection	 Do not breathe vapours or spray Use with local exhaust ventilation Electrical equipment should be p standard. Safety goggles Impervious butyl rubber gloves Gloves must be inspected prior to 	n. rotected to the appropriate o use. tive clothing.



	Pro	otective suit			
Respiratory protec		the case of va proved filter.	apour formation	use a resp	pirator with an
Hygiene measures	Wa pro Ke Do Do Av	ash hands bef oduct. ep working cl not swallow. not breathe v	not eat, drink or ore breaks and othes separately vapours or spray th skin, eyes an	immediate /. / mist.	ely after handling the
Exposure Guideli Components	CAS-No.	Value	Control parameters	Upda te	Basis
Methanol	67-56-1	SKIN_DE S : Skin designati on:		2008	ACGIH:US. ACGIH Threshold Limit Values
Methanol	67-56-1	STEL : Short term exposure limit	(250 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Methanol	67-56-1	TWA : Time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Methanol	67-56-1	STEL : Short term exposure limit	325 mg/m3 (250 ppm)	2005	NIOSH/GUIDE:US NIOSH: Pocket Guide to Chemical Hazards



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Methanol	67-56-1	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Methanol	67-56-1	REL : Recomm ended exposure limit (REL):	260 mg/m3 (200 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Methanol	67-56-1	PEL : Permissi ble exposure limit	260 mg/m3 (200 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Methanol	67-56-1	SKIN_FI NAL : Skin designati on (Final Rule Limit applies):	Can be absorbed through the skin.	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Methanol	67-56-1	STEL : Short term exposure limit	325 mg/m3 (250 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Methanol	67-56-1	TWA : Time weighted average	260 mg/m3 (200 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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voicel state	Liquid
Physical state	: liquid
Color	: colourless
Odor	: characteristic
Odor threshold	: Note: no data available
pH	: Note: Not applicable
Melting point/range	: -98 °C
Boiling point/boiling range	: 64 - 65 °C at 1,013 hPa
Flash point	: 52 °F (11 °C) Method: DIN 51755
Evaporation rate	: Note: no data available
Flammability	: Not applicable
Lower explosion limit	: 5.5 %(V)
Upper explosion limit	: 50 %(V)
Vapor pressure	: 128 hPa at 20 °C(68 °F) 532 hPa at 50 °C(122 °F)
Vapor density	: Note: no data available
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Density	: 0.79 g/cm3 at 20 °C	
Density	. 0.79 g/cm3 at 20 C	
Water solubility	: Note: completely miscibl	le
Partition coefficient: n-octanol/water	: log Pow: -0.71	
Ignition temperature	: 455 °C Method: DIN 51794	
Auto-ignition temperature	: Note: not auto-flammabl	e
Decomposition temperature	: Note: At normal pressure decomposition.	e may be distilled without
Viscosity, dynamic	: ca. 0.55 mPa.s at 25 °C	
Viscosity, kinematic	: Note: no data available	
Oxidizing properties	: The substance or mixtur	re is not classified as oxidizing.
Molecular weight	: 32.04 g/mol	
CTION 10. STABILITY AND R	ACTIVITY	
Chemical stability	: Stable under recommen	ded storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation	on does not occur.
Conditions to avoid	: Heat, flames and sparks Keep away from direct s	
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Incompatible materials	: Oxidizing agents	
-		
Hazardous decomposition products	 In case of fire hazardous decomposi produced such as: Carbon monoxide Carbon dioxide (CO2) Formaldehyde 	tion products may be
CTION 11. TOXICOLOGICAL	- INFORMATION	
Acute oral toxicity	: LD50: 5,630 mg/kg Species: Rat	
Acute inhalation toxicity	: LC50: > 80 mg/l Exposure time: 4 h Species: Rat	
Acute dermal toxicity	: LD50: > 10,000 mg/kg Species: Rabbit	
Skin irritation	: Species: Rabbit Result: irritating	
Eye irritation	: Species: Rabbit Result: irritating	
Sensitisation	: Note: no data available	
Sensitisation Repeated dose toxicity Methanol	 Note: no data available Species: Rat Application Route: Inhalation 	



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Version 1.1		Revision Date 08/10/2018	Print Date 06/01/2023
		Test substance: Methanol Developmental Toxicity NOAEL (maternal toxicity) 10,000 ppm NOAEL (developmental toxicity) 5,000 ppm Skeletal and visceral malformations.	
Genotoxicity in vitro Methanol	:	Note: In vitro tests did not show mutag	genic effects
Genotoxicity in vivo Methanol	:	Note: In vivo tests did not show mutag	enic effects
Further information	:	Note: When swallowed, there is a dar	nger of blindness.
SECTION 12. ECOLOGICAL INFO	DRN	ΙΑΤΙΟΝ	
Ecotoxicity effects			
Toxicity to fish	:	LC50: 15,400 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Blueg	ill sunfish)
Toxicity to daphnia and other aquatic invertebrates	:	EC50: > 10,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)	
Toxicity to algae	:	Note: no data available	
Toxicity to bacteria	:	EC50: ca. 71,000 mg/l	
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sion 1.1		R	evision Date 08/10/2018	Print Date 06/01/2	
		Sp	pecies: Bacteria		
Eliminat	ion information (per	sisten	ce and degradability)		
Bioaccumulation		: No	: Note: Bioaccumulation is unlikely.		
			·		
Mobility		: No	ote: no data available		
Biodegra	adability	· Re	esult: Readily biodegradable.		
Diodogra	laabiirty		alue: 99 %		
		Me	ethod: OECD Test Guideline 301	D	
F unth on	information on cool				
	information on ecolo	•••			
Biochem (BOD)	ical Oxygen Demand	: Va	alue: 1,120 mg/g		
Chemical Oxygen Demand		: Va	: Value: 1,500 mg/g		
(COD)	al ecological	· Do	: Do not flush into surface water or sanitary sewer system.		
informati		. DC	The mush me surface water of a	anitary sewer system.	
CTION 13	. DISPOSAL CONSID	ERAT	IONS		
Disesse				a l En vina en tal	
Disposal	methods		oserve all Federal, State, and Lo gulations.	cal Environmental	
			<u>y</u>		
CTION 14	. TRANSPORT INFO	RMATI	ON		
DOT	UN/ID No.		: UN 1230		
	Proper shipping na Class	ame	: METHANOL 3		
	Packing group		Ĩ		
	Hazard Labels		3		
ΙΑΤΑ	UN/ID No.		: UN 1230		
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	Description of the goo Class Packaging group Hazard Labels Packing instruction (c aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	ods : METHANOL : 3 : II : 3 (6.1) argo : 364 : 352 : Y341	
IMDG	Class Packaging group Hazard Labels EmS Number Marine pollutant	: UN 1230 bds : METHANOL : 3 : II : 3 (6.1) : F-E, S-D : no ion group according chapter 3.1.4.4 :	NONE,
Inventor	c Substances : (MATION On TSCA Inventory	
	al (Notification and	On the inventory, or in compliance wi	th the inventory

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

: All components of this product are on the Canadian DSL

: On the inventory, or in compliance with the inventory

Canada. Canadian

Inventory (KEČI)

Environmental Protection Act (CEPA). Domestic Substances List (DSL)

Korea. Existing Chemicals



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Philippines. The Toxic	:	On the inventory, or in compliance w	ith the inventory
Substances and Hazardous and Nuclear Waste Control			
Act			
			20.0.2.2.2.2.2.2
Chemical Substances	•	On the inventory, or in compliance w	lith the inventory
New Zealand. Inventory of	:	On the inventory, or in compliance w	vith the inventory
Chemicals (NZIoC), as published by ERMA New			
Zealand			
National regulatory information	atic	n	
US. EPA CERCLA	:	The following component(s) of this p	roduct is/are subject to
Hazardous Substances (40		release reporting under 40 CFR 302	
CFR 302)		Reportable Quantity (RQ):	
		Reportable quantity: 5000 lbs	
	:	Methanol	67-56-1
SARA 302 Components	:	No chemicals in this material are sub	pject to the reporting
		requirements of SARA Title III, Secti	on 302.
SARA 313 Components	:	The following components are subje	ct to reporting levels
	-	established by SARA Title III, Sectio	
	:	Methanol	67-56-1
SARA 311/312 Hazards	:	Fire Hazard	
		Acute Health Hazard	
		Chronic Health Hazard	
CERCLA Reportable	:	5000 lbs	
Quantity			
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SAFETY DATA SHEET	-	Honeywell Riedel-de Haën™
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California Prop. 65	: WARNING: This product ca listed below, known to the State o defects or other reproductive harn www.P65Warnings.ca.gov. Methanol	f California to cause birth
Massachusetts RTK	: Methanol	67-56-1
New Jersey RTK	: Methanol	67-56-1
Pennsylvania RTK	: Methanol	67-56-1
Health hazard Flammability Physical Hazard Instability	HMIS III NFPA : 2* 1 : 3 3 : 0 0	
 Chronic health hazard Hazard rating and rating sys of individuals trained in the particular sys 	tems (e.g. HMIS® III, NFPA): This infor particular system.	mation is intended solely for the us
Further information		
The information provided in and belief at the date of its p handling, use, processing, s warranty or quality specificat may not be valid for such may unless specified in the text.	this Safety Data Sheet is correct to the ublication. The information given is de- torage, transportation, disposal and rel tion. The information relates only to the aterial used in combination with any oth Final determination of suitability of any would not constitute a guarantee for any	signed only as a guidance for saf- ease and is not to be considered e specific material designated and ner materials or in any process, material is the sole responsibility
The information provided in and belief at the date of its p handling, use, processing, s warranty or quality specifical may not be valid for such ma unless specified in the text. I the user. This information sh	ublication. The information given is de- torage, transportation, disposal and rel tion. The information relates only to the aterial used in combination with any oth Final determination of suitability of any	signed only as a guidance for saf ease and is not to be considered a specific material designated and her materials or in any process, material is the sole responsibility y specific product properties.



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