

### Methanol with 0.1% Formic Acid

<b>34671-4X4L</b> Version 2.2		Paviaian Data 08/20/2022	Print Date 01/08/2025
Version 2.2		Revision Date 08/29/2023	Plint Date 01/06/2025
SECTION 1. IDENTIFICATION			
Product name	:	Methanol with 0.1% Formic Acid	
Number	:	00000013137	
Product Use Description	:	Solvent	
Manufacturer or supplier's details	:	Honeywell International Inc. 115 Tabor Road Morris Plains, NJ 07950-2546	
For more information call	:	1-800-368-0050 +1-231-726-3171(Monday-Friday, 9:00a	m-5:00pm)
In case of emergency call	:	Medical: 1-800-498-5701 or +1-303-389 Transportation (CHEMTREC): 1-800-42 +1-703-527-3887	
	:	(24 hours/day, 7 days/week)	
SECTION 2. HAZARDS IDENTIF	ICA	TION	
Emergency Overview			
Form	:	liquid, clear	
Color	:	colourless	
Odor	:	alcohol-like	
Classification of the substa	ance	e or mixture	
Classification of the substand or mixture	ce	: Flammable liquids, Category 2 Specific target organ toxicity - single ex Eyes, Nervous system, Systemic toxici	
GHS Label elements, inclu	ding	precautionary statements	
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sion 2.2	Revision Date 08/29/2023	Print Date 01/08/20
Symbol(s)		
Signal word	: Danger	
Hazard statements	: Highly flammable liquid and vapou Causes damage to organs.	r.
Precautionary statements	<ul> <li>Prevention: Keep away from heat/ sparks/ open smoking.</li> <li>Keep container tightly closed.</li> <li>Ground/bond container and receivid Use explosion-proof electrical/ ven Use only non-sparking tools.</li> <li>Take precautionary measures again Do not breathe dust/ fume/ gas/ min Wash skin thoroughly after handlin Do not eat, drink or smoke when us Wear protective gloves/protective of protection.</li> </ul>	ng equipment. tilating/ lighting equipment. inst static discharge. st/ vapours/ spray. g. sing this product.
	<b>Response:</b> IF ON SKIN (or hair): Remove/ Tak contaminated clothing. Rinse skin IF exposed: Call a POISON CENT In case of fire: Use dry sand, dry cl foam for extinction.	with water/ shower. ER or doctor/ physician.
	<b>Storage:</b> Store in a well-ventilated place. Ke Store locked up.	ep cool.
	<b>Disposal:</b> Dispose of contents/ container to a plant.	n approved waste disposal
<b>Carcinogenicity</b> No component of this product anticipated carcinogen by NTF	present at levels greater than or equal to	0.1% is identified as a know
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#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS** Chemical nature : Mixture Chemical name CAS-No. Concentration Methanol 67-56-1 99.90 % Formic acid 64-18-6 0.10 % **SECTION 4. FIRST AID MEASURES** Inhalation : Call a physician immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician. : Rinse immediately with plenty of water, also under the eyelids, Eve contact for at least 15 minutes. Call a physician. Call a physician immediately. Do NOT induce vomiting. Ingestion : Immediate medical attention is required. Never give anything by mouth to an unconscious person. Notes to physician Most important : No information available. symptoms/effects, acute and delayed Indication of immediate : Treat symptomatically. medical attention and special treatment needed, if necessary Page 3 / 18



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Suitable extinguishing medie	: Alcohol-resistant foam
Suitable extinguishing media	Carbon dioxide (CO2)
	Dry chemical
	Cool closed containers exposed to fire with water spray.
Jnsuitable extinguishing nedia	: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during	: Flammable.
irefighting	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
	: Wear self-contained breathing apparatus and protective suit.
or firefighters	
TION 6. ACCIDENTAL RELE	EASE MEASURES
TION 6. ACCIDENTAL RELE Personal precautions, protective equipment and	EASE MEASURES : Wear personal protective equipment. Immediately evacuate personnel to safe areas.
TION 6. ACCIDENTAL RELE Personal precautions, protective equipment and	EASE MEASURES : Wear personal protective equipment. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
TION 6. ACCIDENTAL RELE Personal precautions, protective equipment and	EASE MEASURES : Wear personal protective equipment. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation.
TION 6. ACCIDENTAL RELE Personal precautions, protective equipment and	EASE MEASURES : Wear personal protective equipment. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition.
TION 6. ACCIDENTAL RELE Personal precautions, protective equipment and	EASE MEASURES : Wear personal protective equipment. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Do not swallow.
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TION 6. ACCIDENTAL RELE Personal precautions, protective equipment and emergency procedures	EASE MEASURES : Wear personal protective equipment. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Do not breathe vapours or spray mist.
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Special protective equipment for firefighters FION 6. ACCIDENTAL RELE Personal precautions, protective equipment and emergency procedures	<ul> <li>EASE MEASURES</li> <li>Wear personal protective equipment. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.</li> <li>Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water</li> </ul>
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the area. ing tools should be used. osion-proof equipment. and collect spillage with non-combustible absorbent , e.g. sand, earth, vermiculite, diatomaceous earth and container for disposal according to local regulations ion 13).
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rsonal protective equipment. in well-ventilated areas. ntainer tightly closed. noke. vallow. reathe vapours or spray mist. ntact with skin, eyes and clothing.
ay from fire, sparks and heated surfaces. cautionary measures against static discharges. Il equipment is electrically grounded before beginning operations. osion-proof equipment. duct and empty container away from heat and sources n. ing tools should be used. ing.
area designed for storage of flammable liquids. Protect sical damage. ntainers tightly closed in a dry, cool and well-ventilated
rs which are opened must be carefully resealed and ght to prevent leakage. ay from heat and sources of ignition. ay from direct sunlight. ay from incompatible substances. r hazardous when empty. essurize, cut, weld, braze, solder, drill, grind or expose



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containers to heat or sources of ignition.

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	:	<ul> <li>When using, do not eat, drink or smoke.</li> <li>Wash hands before breaks and immediately after handling the product.</li> <li>Keep working clothes separately.</li> <li>Do not swallow.</li> <li>Do not breathe vapours or spray mist.</li> <li>Avoid contact with skin, eyes and clothing.</li> <li>This material has an established AIHA ERPG exposure limit.</li> <li>The current list of ERPG exposure limits can be found at http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/D ocuments/2011erpgweelhandbook_table-only.pdf.</li> </ul>
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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, as amended
Methanol	67-56-1	SKIN_DE S : Skin designati on:	Danger of cutaneous absorption	01 2020	ACGIH:US. ACGIH Threshold Limit Values, as amended
Methanol	67-56-1	STEL : Short term exposure limit	(250 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
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, as amended
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, as amended
Methanol	67-56-1	STEL : Short term exposure limit	325 mg/m3 (250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
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ion 2.2		Revision Date	08/29/2023		Print Date 01/08/
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), as amended
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), as amended
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), as amended
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), as amended
Formic acid	64-18-6	PEL : Permissi ble exposure limit	9 mg/m3 (5 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Formic acid	64-18-6	TWA : Time weighted average	(5 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
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Formic acid	64-18-6	TWA : Time weighted average	9 mg/m3 (5 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Formic acid	64-18-6	REL : Recomm ended exposure limit (REL):	9 mg/m3 (5 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Formic acid	64-18-6	STEL : Short term exposure limit	(10 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
CTION 9. PHYSICAL Physical state	: liq	uid, clear			
Color	: со	lourless			
Odor	: alc	cohol-like			
Odor threshold	: No	ote: No data a	available		
рН	: No	ote: not deter	mined		
Melting point/range		7.68 °C ote: The phys	ical data is tha	t of the ma	in component.
Boiling point/boiling ra	0	4.7 °C ote: The phys	ical data is tha	t of the ma	in component.
Flash point		2 °F (11 °C) ethod: closed	cup		
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Evaporation rate	: ca. 5 Method: Compared to Butyl acetate.	
Lower explosion limit	: 6 %(V) Note: The physical data is that of the	e main component.
Upper explosion limit	: 36 %(V) Note: The physical data is that of the	e main component.
Vapor pressure	: 129.32 hPa at 20 °C(68 °F)Note: The physical d component.	ata is that of the main
Vapor density	: 1.11 Note: (Air = 1.0), The physical component.	data is that of the main
Density	: 0.792 g/cm3 at 20 °C Note: The physical data is that of the	e main component.
Water solubility	: Note: completely soluble	
Partition coefficient: n-octanol/water	: Note: No data available	
Ignition temperature	: 464 °C Method: The physical data is that of	the main component.
Viscosity, dynamic	: Note: No data available	
Viscosity, kinematic	: Note: No data available	

#### SECTION 10. STABILITY AND REACTIVITY

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Reactivity	: Not classified as a reactivity hazard.	Not classified as a reactivity hazard.		
Chemical stability	: Stable under recommended storage	Stable under recommended storage conditions.		
Possibility of hazardous reactions	: Hazardous polymerisation does not	Hazardous polymerisation does not occur.		
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.			
Incompatible materials	: Strong oxidizing agents Aluminium Magnesium May attack many plastics, rubbers a	Aluminium		
Hazardous decomposition products	<ul> <li>In case of fire hazardous decompos produced such as: Carbon monoxide Carbon dioxide (CO2) Formaldehyde</li> </ul>	ition products may be		
TION 11. TOXICOLOGICAL				
CTION 11. TOXICOLOGICAL Acute oral toxicity Methanol	L INFORMATION			
Acute oral toxicity	LINFORMATION			
Acute oral toxicity	L INFORMATION			
Acute oral toxicity Methanol	L INFORMATION : LD50: 5,628 mg/kg Species: Rat : LD50: 730 mg/kg Species: Rat	vapour		
Acute oral toxicity Methanol Formic acid	L INFORMATION : LD50: 5,628 mg/kg Species: Rat : LD50: 730 mg/kg Species: Rat Method: OECD Test Guideline 401 : Acute toxicity estimate: > 40 mg/l, Exposure time: 4 h	vapour		
Methanol Formic acid Acute inhalation toxicity Acute dermal toxicity	L INFORMATION : LD50: 5,628 mg/kg Species: Rat : LD50: 730 mg/kg Species: Rat Method: OECD Test Guideline 401 : Acute toxicity estimate: > 40 mg/l, * Exposure time: 4 h Method: Calculation method : LD50: 15,800 mg/kg	vapour		



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<b>71-4X4L</b> on 2.2	Revision Date 08/29/2023	Print Date 01/08/2
Formic acid	: Note: No data available	
Skin irritation Formic acid	: Species: Rabbit Result: Causes severe burns. Classification: Corrosive Method: OECD	
Eye irritation Formic acid	: Species: Rabbit Result: Risk of serious damage to en Method: OECD Test Guideline 405	yes.
Sensitisation Formic acid	: Buehler Test Species: Guinea pig Classification: non-sensitizing	
Repeated dose toxicity Methanol	: Species: Rat Application Route: Inhalation 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 mut	agenic effects
Formic acid	: Test Method: sister chromatid excha Cell type: Chinese hamster fibroblas Metabolic activation: with and withou Result: negative Method: OECD Test Guideline 479	sts
	: Test Method: Ames test Metabolic activation: with and withou Result: negative	ut metabolic activation
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rsion 2.2	Revision Date 08/29/2023	Print Date 01/08/2025
	Method: OECD Test Guideline 471	
	: Test Method: In vitro gene mutation Cell type: Chinese hamster ovary of Metabolic activation: with and withor Result: negative Method: OECD Test Guideline 476	cells out metabolic activation
Genotoxicity in vivo Methanol	: Note: In vivo tests did not show mu	utagenic effects
Formic acid	: Species: Drosophila melanogaster Method: OECD Test Guideline 477 Result: negative	
CTION 12. ECOLOGICA	LINFORMATION	
Toxicity to fish Methanol	: LC50: 29,400 mg/l Exposure time: 96 h Species: Pimephales promelas (fat	thead minnow)
	Exposure time: 96 h	ead-across"
Methanol	Exposure time: 96 h Species: Pimephales promelas (fat LC50: 130 mg/l Exposure time: 96 h Species: Danio rerio (zebra fish) Test substance: REACH dossier "r	ead-across"
Methanol Formic acid Toxicity to daphnia and	Exposure time: 96 h Species: Pimephales promelas (fat : static test LC50: 130 mg/l Exposure time: 96 h Species: Danio rerio (zebra fish) Test substance: REACH dossier "r Method: OECD Test Guideline 203 other aquatic invertebrates : LC50: 10,000 mg/l Exposure time: 24 h	ead-across"



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	Method: OECD Test Guideline 202	2
Toxicity to algae Formic acid	: Growth rate EC50: 1,240 mg/l Exposure time: 72 h Species: Pseudokirchneriella subo Test substance: REACH dossier " Method: OECD Test Guideline 20"	read-across"
Toxicity to bacteria Methanol	: EC50: 43,000 mg/l Exposure time: 5 min Species: Photobacterium phospho	preum
	EC50: 40,000 mg/l Exposure time: 15 min Species: Photobacterium phospho	preum
	EC50: 39,000 mg/l Exposure time: 25 min Species: Photobacterium phospho	preum
Further information on e	cology	
Additional ecological information	: Accumulation in aquatic organisms The product is readily degradable	
TION 13. DISPOSAL CON		
Disposal methods	: Observe all Federal, State, and Lo regulations.	ocal Environmental
TION 14. TRANSPORT IN	FORMATION	
DOT UN/ID No. Proper shippin	: UN 1230 g name : METHANOL SOLUTIC	DN
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Description of t Class Packaging grou Hazard Labels Packing instruct aircraft) Packing instruct (passenger airce Packing instruct (passenger airce Packing instruct (passenger airce Packing instruct (passenger airce Packaging grou Hazard Labels EmS Number Marine pollutar IMDG Code se CTION 15. REGULATORY II Inventories US. Toxic Substances Control Act Australia. Inventory of Industrial Chemicals (AIIC), as amended Canada. Canadian Environmental Protection Act (CEPA). Domestic			
IMDG UN/ID No. Description of t Class Packaging grou Hazard Labels EmS Number Marine pollutan IMDG Code ser CTION 15. REGULATORY II Inventories US. Toxic Substances Control Act Australia. Inventory of Industrial Chemicals (AIIC), as amended Canada. Canadian Environmental Protection Act (CEPA). Domestic	p ion (cargo ion raft) ion	: 3 : II : 3 (6.1)	
US. Toxic Substances Control Act Australia. Inventory of Industrial Chemicals (AIIC), as amended Canada. Canadian Environmental Protection Act (CEPA). Domestic	ne goods p gregation gro	: 3 : II : 3 (6.1) : F-E, S-D : no oup according chapter 3.1.4.4 : NC	NE,
Control Act Australia. Inventory of Industrial Chemicals (AIIC), as amended Canada. Canadian Environmental Protection Act (CEPA). Domestic	· On Te		
Industrial Chemicals (AIIC) as amended Canada. Canadian Environmental Protection Act (CEPA). Domestic	. 0113		
Environmental Protection Act (CEPA). Domestic	: On the	e inventory, or in compliance with th	ne inventory
	: All con	nponents of this product are on the	Canadian DSL
Japan. Kashin-Hou Law Lis	: On the	e inventory, or in compliance with th	ne inventory
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Korea. Existing Chemicals : Inventory (KECI)	On the inventory, or in compliance wit	th the inventory
Philippines. Inventory of : Chemicals and Chemical Substances (PICCS)	On the inventory, or in compliance wit	h the inventory
China. Inventory of Existing : Chemical Substances (IECSC)	On the inventory, or in compliance wit	h the inventory
New Zealand. Inventory of : Chemicals (NZIoC), as published by ERMA New Zealand	On the inventory, or in compliance wit	h the inventory
Taiwan Chemical : Substance Inventory (TCSI)	On the inventory, or in compliance wit	th the inventory
National regulatory informati	on	
US. EPA CERCLA : Hazardous Substances (40 CFR 302)	The following component(s) of this provide the second seco	
:	Reportable quantity: 5000 lbs Methanol	67-56-1
SARA 302 Components	No chemicals in this material are subj requirements of SARA Title III, Sectio	
SARA 313 Components	The following components are subjec established by SARA Title III, Section Methanol	
SARA 311/312 Hazards	Fire Hazard Acute Health Hazard Chronic Health Hazard	
CERCLA Reportable	5005 lbs	
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California Prop. 65	: <b>WARNING:</b> This product can expose you to chemicals, listed below, known to the State of California to cause birth defects or other reproductive harm. For more information go to			
		www.P65Warnings.ca.gov.		
	Methanol		67-56-1	
Massachusetts RTK	: Methanol		67-56-1	
	: Formic acid		64-18-6	
New Jersey RTK	: Methanol		67-56-1	
	: Formic acid		64-18-6	
Pennsylvania RTK	: Methanol		67-56-1	
	: Formic acid		64-18-6	
TION 16. OTHER INFOR	MATION			
	HMIS III	NFPA		
Health hazard	: 2*	1		
Flammability	: 3	3		
Physical Hazard	: 0			
Instability	:	0		
<ul> <li>Chronic health hazard Hazard rating and rating s of individuals trained in th</li> </ul>		III, NFPA): This informa	tion is intended solely for the	
Further information				
and belief at the date of its	s publication. The in	formation given is desigi	st of our knowledge, informaned only as a guidance for s se and is not to be considered	

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.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

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