

Dimethyl Acetamide

071-1L

Version 2.1

Revision Date 08/10/2018

Print Date 10/17/2019

SECTION 1. IDENTIFICATION

Product name	:	Dimethyl Acetamide
Number Product Use Description	:	00000011356 Solvent
Manufacturer or supplier's details	:	Honeywell International Inc. 1953 South Harvey Street Muskegon, MI 49442
For more information call	:	1-800-368-0050 +1-231-726-3171
In case of emergency call	:	(Monday-Friday, 9:00am-5:00pm) 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, clear
Color	:	colourless
Odor	:	weak ammoniacal
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071-1L Version 2.1 Revision Date 08/10/2018 Print Date 10/17/2019 Classification of the substance or mixture Classification of the substance : Flammable liquids, Category 4 Acute toxicity, Category 4, Inhalation or mixture Eye irritation, Category 2A Reproductive toxicity, Category 1B GHS Label elements, including precautionary statements Symbol(s) Signal word : Danger Hazard statements : Combustible liquid. Causes serious eye irritation. Harmful if inhaled. May damage fertility or the unborn child. : Prevention: Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smokina. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. **Response:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Page 2 / 17



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	IF exposed or concerned: Get mean If eye irritation persists: Get medic In case of fire: Use dry sand, dry of foam for extinction.	al advice/ attention.
	Storage: Store in a well-ventilated place. Ke Store locked up.	eep cool.
	Disposal: Dispose of contents/ container to a plant.	an approved waste disposa
Carcinogenicity		
anticipated carcinogen by N		0.1% is identified as a kno
anticipated carcinogen by N		0.1% is identified as a kno
anticipated carcinogen by N	NTP, IARC, or OSHA.	0.1% is identified as a kno
anticipated carcinogen by N	NTP, IARC, or OSHA.	0.1% is identified as a kno
anticipated carcinogen by NCTION 3. COMPOSITION/II	NTP, IARC, or OSHA.	0.1% is identified as a kno
anticipated carcinogen by N CTION 3. COMPOSITION/II Synonyms Formula	NTP, IARC, or OSHA. NFORMATION ON INGREDIENTS : DMAC, N,N-Dimethylacetamide : C4H9NO : Substance	0.1% is identified as a kno
anticipated carcinogen by N CTION 3. COMPOSITION/II Synonyms Formula Chemical nature	NTP, IARC, or OSHA. NFORMATION ON INGREDIENTS : DMAC, N,N-Dimethylacetamide : C4H9NO : Substance	
anticipated carcinogen by N CTION 3. COMPOSITION/II Synonyms Formula Chemical nature	NTP, IARC, or OSHA. NFORMATION ON INGREDIENTS CMAC, N,N-Dimethylacetamide C4H9NO Substance Al name CAS-No. 127-19-5	Concentration
anticipated carcinogen by N CTION 3. COMPOSITION/II Synonyms Formula Chemical nature N,N-Dimethylacetamide	NTP, IARC, or OSHA. NFORMATION ON INGREDIENTS CMAC, N,N-Dimethylacetamide C4H9NO Substance Al name CAS-No. 127-19-5	Concentration 100.00 %
anticipated carcinogen by N CTION 3. COMPOSITION/II Synonyms Formula Chemical nature N,N-Dimethylacetamide CTION 4. FIRST AID MEAS	NTP, IARC, or OSHA. NFORMATION ON INGREDIENTS DMAC, N,N-Dimethylacetamide C4H9NO Substance al name CAS-No. 127-19-5 CAS-No. CAS-	Concentration 100.00 % Move out of dangerous hing immediately.
anticipated carcinogen by N CTION 3. COMPOSITION/II Synonyms Formula Chemical nature N,N-Dimethylacetamide CTION 4. FIRST AID MEAS General advice	NTP, IARC, or OSHA. NFORMATION ON INGREDIENTS DMAC, N,N-Dimethylacetamide C4H9NO Substance Al name CAS-No. 127-19-5 CAS-NO. SURES First aider needs to protect himself. area. Take off all contaminated cloth	Concentration 100.00 % Move out of dangerous hing immediately.



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		breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.
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 if irritation develops or persists.
Eye contact		Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.
Ingestion	:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician.
Notes to physician		
Indication of immediate medical attention and special treatment needed, if necessary	:	Treat symptomatically.
CTION 5. FIREFIGHTING MEA	SU	RES
Suitable extinguishing media	:	Carbon dioxide (CO2)
	•	Dry chemical
		Foam
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during	:	Combustible.
firefighting		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:
		Ammonia Carbon dioxide (CO2), carbon monoxide (CO), oxides of
		nitrogen (NOx), dense black smoke.
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50112.1		
Special protective equipment for firefighters	: Wear self-contained breathing ap	paratus and protective suit.
Further information	: Use extinguishing measures that circumstances and the surroundin Collect contaminated fire extingu must not be discharged into drair	ng environment. ishing water separately. This
CTION 6. ACCIDENTAL RELEA	ASE MEASURES	
Personal precautions, protective equipment and emergency procedures	 Wear personal protective equipmediately evacuate personnel to Keep people away from and upwing Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Avoid breathing vapours, mist or generative additional stress and stress	o safe areas. nd of spill/leak. jas.
Environmental precautions	 Prevent further leakage or spillage Prevent product from entering dra Discharge into the environment m Do not flush into surface water or Do not allow run-off from fire fighti courses. 	ins. ust be avoided. sanitary 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 nor material, (e.g. sand, earth, diatoma transfer to a container for disposal regulations (see section 13).	n-combustible absorbent aceous earth, vermiculite) and
Additional advice	: Suppress (knock down) gases/vap jet.	oours/mists with a water spray
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TION 7. HANDLING AND ST	ORAGE
Handling	
Precautions for safe handling	 Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing.
Advice on protection against fire and explosion	 Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat and sources of ignition. No sparking tools should be used. No smoking.
Storage	
Conditions for safe storage, including any incompatibilities	 Store in area designed for storage of flammable liquids. Protect from physical damage. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat and sources of ignition. Keep away from direct sunlight. Store away from incompatible substances. Container hazardous when empty. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Further information on storage conditions	: Keep containers tightly closed in a cool, well-ventilated place. Containers should be protected against falling down.
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		Avoid product residues in/on contair Do not leave vessels/containers ope Store in a place accessible by autho Keep under nitrogen.	n
SECTION 8. EXPOSURE CONT	ROI	S/PERSONAL PROTECTION	
Protective measures	:	Ensure that eyewash stations and sather workstation location.	afety showers are close to
Engineering measures	:	Use with local exhaust ventilation. Prevent vapour buildup by providing and after use.	adequate ventilation during
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 comp	
Hand protection	:	Solvent-resistant gloves Gloves must be inspected prior to us Replace when worn.	Se.
Skin and body protection	:	Wear as appropriate: Solvent-resistant apron Flame retardant antistatic protective If splashes are likely to occur, wear: Protective suit	
Respiratory protection	:	In case of insufficient ventilation, we equipment. For rescue and maintenance work ir self-contained breathing apparatus. Use NIOSH approved respiratory pr	n storage tanks use
Hygiene measures	:	When using, do not eat, drink or smo Wash hands before breaks and imm product. Keep working clothes separately.	
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ion 2.1	R	Revision Date	08/10/2018		Print Date 10/17/2
	Do Avo	not swallow. bid breathing	sh contaminate vapours, mist o th skin, eyes an	r gas.	
Exposure Guidelin			1 -		1
Components	CAS-No.	Value	Control parameters	Upda te	Basis
N,N-Dimethylacet amide	127-19-5	TWA : Time weighted average	(10 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
N,N-Dimethylacet amide	127-19-5	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values
N,N-Dimethylacet amide	127-19-5	REL : Recomm ended exposure limit (REL):	35 mg/m3 (10 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
N,N-Dimethylacet amide	127-19-5	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
N,N-Dimethylacet amide	127-19-5	PEL : Permissi ble exposure limit	35 mg/m3 (10 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
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amide	127-19-5	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	02 2006	OSHA_TRANS:US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
N,N-Dimethylacet amide	127-19-5	TWA : Time weighted average	35 mg/m3 (10 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
N,N-Dimethylacet amide	127-19-5	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)
TION 9. PHYSICAL	AND CHEMICAI	PROPERT	IES		
TION 9. PHYSICAL , Physical state Color Odor	: liq : co	- PROPERT uid, clear lourless ak ammonia			
Physical state Color	: liq : co : we	uid, clear Iourless	cal		
Physical state Color Odor	: liq : co : we : Nc	uid, clear Iourless eak ammonia	cal wailable		
Physical state Color Odor Odor threshold	: liq : co : we : Nc	uid, clear lourless eak ammonia ite: no data a ite: Not appli	cal wailable		
Physical state Color Odor Odor threshold	: liq : co : we : Nc : Nc : -2	uid, clear lourless eak ammonia ite: no data a ite: Not appli	cal wailable		
Physical state Color Odor Odor threshold oH Freezing point	: liq : co : we : Nc : Nc : -2	uid, clear lourless eak ammonia ite: no data a ite: Not appli 0 °C	cal wailable cable		
Physical state Color Odor Odor threshold oH Freezing point	: liq : co : we : Nc : Nc : -2	uid, clear lourless eak ammonia ete: no data a ete: Not appli 0 °C 56 °C	cal wailable cable		



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Flash point	: 158 °F (70 °C) Method: open cup	
Evaporation rate	: Note: no data available	
Lower explosion limit	: 1.8 %(V)	
Upper explosion limit	: 11.5 %(V) at 99 °C	
Vapor pressure	: 2.0 hPa at 20 °C(68 °F)	
Vapor density	: 3.0	
Density	: 0.942 g/cm3 at 20 °C	
	0.937 g/cm3 at 25 °C	
Water solubility	: Note: soluble	
Partition coefficient: n-octanol/water	: log Pow: -0.77	
Ignition temperature	: 490 °C	
Molecular weight	: 87.12 g/mol	
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SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur. Spray mist may be flammable at temperatures below the flash point.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.
Incompatible materials	 Oxidizing agents Acids Halogenated solvents in the presence of iron Plastic materials can be attacked.
Hazardous decomposition products	 In case of fire hazardous decomposition products may be produced such as: Ammonia Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: ca. 5,830 mg/kg Species: Rat
Acute inhalation toxicity	: LC50: 8.8 mg/l , vapour Exposure time: 1 h Species: Rat
Acute dermal toxicity	: LD50: 2,100 mg/kg Species: Rabbit
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Skin irritation	: Species: Rabbit Result: slight irritation Exposure time: 24 h	
Eye irritation	: Species: Rabbit Result: Moderate eye irritation	
Sensitisation	: Species: Guinea pig Result: Did not cause sensitisation or	n laboratory animals.
Repeated dose toxicity	: Species: Rat Application Route: Oral Exposure time: 24 Months NOAEL (No observed adverse effect Note: Spleen	level): 300 mg/kg/d
	: Species: Rat Application Route: Inhalation Exposure time: 2 Years NOEL: 25 ppm Note: Liver damage Kidney damage	
	: Species: Mouse Application Route: Inhalation Exposure time: 2 Years NOEL: 25 ppm Note: Liver damage	
	: Species: Rat Application Route: Inhalation Exposure time: 6 Months Note: Respiratory irritation	
	: Species: Dog Application Route: Dermal Exposure time: 6 Weeks NOEL: 299 mg/kg	
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sion 2.1		Revision Date 08/10/2018	Print Date 10/17/2
		Note: Liver damage	
		-	
Genotoxicity in vitro	:	Note: In vitro tests did not show muta	agenic effects
Genotoxicity in vivo	:	Note: In vivo tests did not show muta	agenic effects
Carcinogenicity		: Species: Rat	
		Method: Animal testing did not show any carcinogenic effect Note: Did not show carcinogenic effects in animal experiment	
Reproductive toxicity		: Species: Rat	
		Method: Animal testing did not show	any effects on fertility.
Teratogenicity		: Species: Rat	
		Application Route: Oral	
		Application Route: Oral Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity.	als resulted in maternal
CTION 12. ECOLOGICAL I	INFOR	Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity.	als resulted in maternal
CTION 12. ECOLOGICAL I Ecotoxicity effects	INFOF	Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity.	als resulted in maternal
	INFOF	Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity.	als resulted in maternal
Ecotoxicity effects	INFOF	 Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity. RMATION flow-through test LC50: >= 1,500 mg/l 	als resulted in maternal
Ecotoxicity effects	INFOF	Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity.	
Ecotoxicity effects	INFOF	 Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity. RMATION flow-through test LC50: >= 1,500 mg/l Exposure time: 96 h Species: Pimephales promelas (father : LC50: 13,300 mg/l 	
Ecotoxicity effects	INFOF	 Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity. RMATION flow-through test LC50: >= 1,500 mg/l Exposure time: 96 h Species: Pimephales promelas (father Exposure time: 96 h 	ead minnow)
Ecotoxicity effects	INFOF	 Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity. RMATION flow-through test LC50: >= 1,500 mg/l Exposure time: 96 h Species: Pimephales promelas (father : LC50: 13,300 mg/l Exposure time: 96 h Species: Gambusia affinis (Mosquito) 	ead minnow)
Ecotoxicity effects	INFOF	 Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity. RMATION flow-through test LC50: >= 1,500 mg/l Exposure time: 96 h Species: Pimephales promelas (father Exposure time: 96 h 	ead minnow)
Ecotoxicity effects	INFOF	 Dose: NOEL – 65 mg/kg Method: Exposure by pregnant anima and foetal toxicity. RMATION flow-through test LC50: >= 1,500 mg/l Exposure time: 96 h Species: Pimephales promelas (father : LC50: 13,300 mg/l Exposure time: 96 h Species: Gambusia affinis (Mosquito : static test 	ead minnow)



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sion 2.1	Revision Date 08/10/2018	Print Date 10/17/20
	Exposure time: 96 h	
	Species: Leuciscus idus (Golden or	fe)
	Method: DIN 38412	
Tovicity to dophnic and other	· static test	
Toxicity to daphnia and other aquatic invertebrates	EC50: > 500 mg/l	
	Exposure time: 48 h	
	Species: Daphnia magna (Water fle	ea)
Toxicity to algae	: EC50: > 500 mg/l	
I ONIORY TO AIGUE	Exposure time: 72 h	
	Species: Desmodesmus subspicatu	ıs (green algae)
Elimination information (pers	sistence and degradability)	
Biodegradability	: aerobic	
	Result: Inherently biodegradable.	
	Value: 96 % Note: Exposure Time: 5d	
Further information on ecolo	ду	
Additional ecological	: Accumulation in aquatic organisms	is unlikely.
information		
CTION 13. DISPOSAL CONSID	ERATIONS	
Dispessed methods	· Observe all Federal State and Les	
Disposal methods	: Observe all Federal, State, and Loc regulations.	ar Environmentar
CTION 14. TRANSPORT INFOR	RMATION	
DOT UN/ID No.	: NA 1993	
Proper shipping na		
	(N,N-Dimethylacetamide	<i>;</i>)
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Version 2.1 Revision Date 08/10/2018 Print Date 10/17/2019 Class CBL Packing group Ш Hazard Labels NONE Required only for US-DOT Bulk Shipments TDG Not dangerous goods ΙΑΤΑ Not dangerous goods IMDG Not dangerous goods SECTION 15. REGULATORY INFORMATION Inventories US. Toxic Substances : On TSCA Inventory Control Act Australia. Industrial : On the inventory, or in compliance with the inventory Chemical (Notification and Assessment) Act Canada, Canadian : All components of this product are on the Canadian DSL Environmental Protection Act (CEPA). Domestic Substances List (DSL) Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory Korea. Existing Chemicals : On the inventory, or in compliance with the inventory Inventory (KECI) Philippines. The Toxic : On the inventory, or in compliance with the inventory Substances and Hazardous and Nuclear Waste Control Act China. Inventory of Existing : On the inventory, or in compliance with the inventory **Chemical Substances** Page 15 / 17



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Version 2.1 Revision Date 08/10/2018 Print Date 10/17/2019 New Zealand. Inventory of : On the inventory, or in compliance with the inventory Chemicals (NZIoC), as published by ERMA New Zealand National regulatory information SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards : Fire Hazard Acute Health Hazard Chronic Health Hazard California Prop. 65 WARNING: 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. N,N-Dimethylacetamide 127-19-5 Massachusetts RTK : N,N-Dimethylacetamide 127-19-5 **New Jersey RTK** : N,N-Dimethylacetamide 127-19-5 Pennsylvania RTK : N,N-Dimethylacetamide 127-19-5 SECTION 16. OTHER INFORMATION HMIS III **NFPA** Health hazard : 2* 2 Flammability : 2 2 Page 16 / 17



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 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: 02/13/2018

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

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