SAFETY DATA SHEET	Honeywell
Acetonitrile	
60004-6X1L Version 1.6 Issuing date 12/	14/2016 Revision Date 05/06/2024 Print Date 05/08/2024
1. IDENTIFICATION OF THE SUI	BSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Product information	
Trade name	: Acetonitrile
Number	: 00000020248
Recommended use of the chemical and restrictions on use	: Laboratory chemicals
Manufacturer or supplier's details	 Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 Seelze, 30926 Germany
For further information, please contact:	: 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 In Japan: 0800-300-5842
2. HAZARDS IDENTIFICATION	
Classification of the substa Classification of the substance or mixture	 Flammable liquids, Category 2 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Eye irritation, Category 2A Specific target organ toxicity - single exposure, Category 1, Central nervous system
GHS Label elements, includ	ding precautionary statements
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1	: Dang	er	
ements	Harm Caus Harm	ful if swallowed. es serious eye irritation. ful if inhaled.	
ary statements	Keep smok Keep Grour Use c Use c Take Do no Use c Wear	away from heat/ sparks/ open fla ing. container tightly closed. nd/bond container and receiving e explosion-proof electrical/ ventilat only non-sparking tools. precautionary measures against of breathe dust/ fume/ gas/ mist/ of skin thoroughly after handling. of eat, drink or smoke when using only outdoors or in a well-ventilate protective gloves/ protective clot	equipment. ing/ lighting equipment. static discharge. vapours/ spray. g this product. ed area.
	IF SW physi IF ON conta IF INI positi IF IN Remo rinsin IF exp If eye In cas	VALLOWED: Call a POISON CEN cian if you feel unwell. Rinse mou J SKIN (or hair): Remove/ Take o minated clothing. Rinse skin with HALED: Remove victim to fresh a on comfortable for breathing. EYES: Rinse cautiously with wat ove contact lenses, if present and g. posed: Call a POISON CENTER irritation persists: Get medical ac se of fire: Use dry sand, dry chem	uth. ff immediately all water/ shower. air and keep at rest in a er for several minutes. I easy to do. Continue or doctor/ physician. dvice/ attention.
	L Issuing date 12/ ary statements	Issuing date 12/14/2016 Issuing date 12/14/20	Issuing date 12/14/2016 Revision Date 05/06/2024 : : : : : : : : : : : : :

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	Store in a well-ventilated place. Keep cool. Store locked up.
	Disposal: Dispose of contents/ container to an approved waste dispo plant.
OMPOSITION/INFORM	TION ON INGREDIENTS
Formula	: C2H3N
Chemical nature	: Substance
Chemical name	CAS-No. Concentration
Acetonitrile	
Acetonitrile	75-05-8 100.00 %
	75-05-8 100.00 %
Acetonitrile	 75-05-8 100.00 % 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. Call a physician.
Acetonitrile	 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.
Acetonitrile IRST AID MEASURES Inhalation	 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. Call a physician. 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.
Acetonitrile IRST AID MEASURES Inhalation Skin contact	 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. Call a physician. 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 eyeli for at least 15 minutes.

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Notes to physician	: Treat as cyanide poisoning. Symptoms of poisoning may not appear Keep under medical supervision for at le			
FIREFIGHTING MEASURES				
Suitable extinguishing media	: Carbon dioxide (CO2) Dry chemical Alcohol-resistant foam Cool closed containers exposed to fire w	<i>i</i> ith water spray.		
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 w Vapours are heavier than air and may sp Vapors may travel to areas away from w igniting/flashing back to vapor source. In case of fire hazardous decomposition produced such as: Hydrogen cyanide (hydrocyanic acid) Carbon dioxide (CO2), carbon monoxide nitrogen (NOx), dense black smoke. 	oread along floors. ork site before products may be		
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.			
ACCIDENTAL RELEASE MEAS	SURES			
Personal precautions, protective equipment and emergency procedures	 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. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing. 			
Environmental precautions	: Prevent further leakage or spillage if safe Prevent product from entering drains. 4/15	e to do so.		

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	Do not	arge into the environment must be flush into surface water or sanita allow run-off from fire fighting to ss.	ary sewer system.
Methods and materials for containment and cleaning up	No spa Use ex Contai materia and tra	ate the area. arking tools should be used. xplosion-proof equipment. n spillage, soak up with non-com al, (e.g. sand, earth, diatomaceou ansfer to a container for disposal al regulations (see section 13).	us earth, vermiculite)
HANDLING AND STORAGE			
Handling Precautions for safe handling	Use or Keep c Do not Do not Avoid I	personal protective equipment. hly in well-ventilated areas. container tightly closed. smoke. swallow. breathing vapours, mist or gas. contact with skin, eyes and clothi	ing.
Advice on protection against fire and explosion	Take p Ensure transfe Use ex Keep p ignitior	arking tools should be used.	static discharges. unded before beginning
Storage			
Conditions for safe storage, including any incompatibilities	Protec Keep c ventila	n area designed for storage of fla t from physical damage. containers tightly closed in a dry, ted place. ners which are opened must be o	cool and well-

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	Keep	upright to prevent leakage. away from heat and sources of ic away from direct sunlight.	gnition.
		away from incompatible substant	ces.
	Conta	ainer hazardous when empty.	
		ot pressurize, cut, weld, braze, so se containers to heat or sources c	
			-
Contains no substances with	n occupation	iai exposure limit values.	
Appropriate engineering c	ontrols	ai exposure limit values.	
Appropriate engineering c Use with local exhaust venti Prevent vapour buildup by p	ontrols lation. roviding ade	equate ventilation during and after	
Appropriate engineering c Use with local exhaust venti Prevent vapour buildup by p	ontrols lation. roviding ade		
Appropriate engineering c Use with local exhaust venti Prevent vapour buildup by p	ontrols lation. roviding ade sures, such	equate ventilation during and after as personal protective equipm se of insufficient ventilation, wear	ent (PPE)
Appropriate engineering c Use with local exhaust venti Prevent vapour buildup by p Individual protection meas	ontrols lation. roviding ade sures, such : In cas equip : Solve Glove	equate ventilation during and after as personal protective equipm se of insufficient ventilation, wear	ent (PPE) suitable respiratory
Appropriate engineering c Use with local exhaust venti Prevent vapour buildup by p Individual protection meas Respiratory protection	controls lation. roviding ade sures, such : In cas equip : Solve Glove Repla : Do nc	equate ventilation during and after as personal protective equipm se of insufficient ventilation, wear ment. ent-resistant gloves es must be inspected prior to use.	ent (PPE) suitable respiratory
Appropriate engineering c Use with local exhaust venti Prevent vapour buildup by p Individual protection meas Respiratory protection Hand protection	ontrols lation. roviding ade sures, such : In cas equip : Solve Glove Repla : Do no Wear Safet If spla	equate ventilation during and after as personal protective equipm se of insufficient ventilation, wear ment. ent-resistant gloves es must be inspected prior to use. ace when worn.	ent (PPE) suitable respiratory
Appropriate engineering c Use with local exhaust venti Prevent vapour buildup by p Individual protection meas Respiratory protection Hand protection	ontrols lation. roviding ade sures, such : In cas equip : Solve Glove Repla : Do no Wear Safety If spla Gogg : Wear Solve Flame	equate ventilation during and after as personal protective equipm se of insufficient ventilation, wear ment. ent-resistant gloves es must be inspected prior to use. ace when worn. of wear contact lenses. as appropriate: y glasses with side-shields ashes are likely to occur, wear: les or face shield, giving complete as appropriate: ent-resistant apron e retardant antistatic protective clo	ent (PPE) suitable respiratory
Appropriate engineering c Use with local exhaust venti Prevent vapour buildup by p Individual protection meas Respiratory protection Hand protection Eye protection	ontrols lation. roviding ade sures, such : In cas equip : Solve Glove Repla : Do no Wear Safety If spla Gogg : Wear Solve Flame If spla	equate ventilation during and after as personal protective equipm se of insufficient ventilation, wear ment. ent-resistant gloves es must be inspected prior to use. ace when worn. of wear contact lenses. as appropriate: y glasses with side-shields ashes are likely to occur, wear: les or face shield, giving complete as appropriate: ent-resistant apron	ent (PPE) suitable respiratory
Appropriate engineering c Use with local exhaust venti Prevent vapour buildup by p Individual protection meas Respiratory protection Hand protection Eye protection	iontrols lation. roviding ade sures, such : In cas equip : Solve Glove Repla : Do no Wear Safety If spla Gogg : Wear Solve Flame If spla Protee : When	equate ventilation during and after as personal protective equipm se of insufficient ventilation, wear ment. ent-resistant gloves es must be inspected prior to use. ace when worn. of wear contact lenses. as appropriate: y glasses with side-shields ashes are likely to occur, wear: les or face shield, giving complete as appropriate: ent-resistant apron e retardant antistatic protective cle ashes are likely to occur, wear: ctive suit	ent (PPE) suitable respiratory e protection to eyes othing.
Appropriate engineering of Use with local exhaust venti Prevent vapour buildup by p Individual protection meas Respiratory protection Hand protection Eye protection Skin and body protection	iontrols lation. roviding ade sures, such : In cas equip : Solve Glove Repla : Do no Wear Safety If spla Gogg : Wear Solve Flame If spla Prote	equate ventilation during and after as personal protective equipm se of insufficient ventilation, wear ment. ent-resistant gloves es must be inspected prior to use. ace when worn. of wear contact lenses. as appropriate: y glasses with side-shields ashes are likely to occur, wear: les or face shield, giving complete as appropriate: ent-resistant apron e retardant antistatic protective cle ashes are likely to occur, wear: ctive suit	ent (PPE) suitable respiratory e protection to eyes othing.

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	Keep working clothes separately.			
	Remove and wash contaminated clothin Do not swallow.	ng before re-use.		
	Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothi	ng.		
Protective measures	: Ensure that eyewash stations and safe	-		
	the workstation location. Legal requirements are to be considered	d in regard of the		
	selection, use and care of personal pro			
PHYSICAL AND CHEMICAL I	PROPERTIES			
Physical state	: liquid			
Colour	: colourless			
Odour	: characteristic			
Odour Threshold	: Note: No data available			
рН	: Note: Not applicable			
Melting point/range	: -46 °C			
Boiling point/boiling range	: 82 °C at 1,013 hPa			
Flash point	: 55.0 °F (12.8 °C)			
	Method: closed cup			
Evaporation rate	: Note: No data available			
Lower explosion limit	: 3 %(V)			
Upper explosion limit	: 16 %(V)			
Vapour pressure	: 97 hPa			
	at 20 °C(68 °F)			
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	147 h at 30 °	Pa °C(86 °F)			
Vapour density	: 1.42 Note: ((Air = 1.0)			
Density	: 0.785	7 g/cm3 at 20 °C			
Water solubility	: Note: completely miscible				
Partition coefficient: n- octanol/water	: log Po	w: -0.34			
Ignition temperature	: 524 °(C			
Viscosity, kinematic	: Note:	No data available			
Molecular weight	: 41.05	g/mol			
0. STABILITY AND REACTIVIT	Υ				
Chemical stability	: Stable	under normal conditions.			
Possibility of hazardous reactions	: Hazaro	dous polymerisation does not occ	cur.		
Conditions to avoid		: Heat, flames and sparks. Keep away from direct sunlight.			
Incompatible materials to avoid	Reduc Sulfite Perchl	ing agents sing agents s	coatings.		
Hazardous decomposition	: In case	e of fire hazardous decompositio	n products may be		
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products	Hydro Carbo	ced such as: gen cyanide (hydrocyanic acid) n dioxide (CO2), carbon monoxic en (NOx), dense black smoke.	le (CO), oxides of
TOXICOLOGICAL INFORMA			
Information on likely routes of exposure	f : Inhala	tion, Eye contact, Skin contact, Ir	ngestion
Acute oral toxicity	Specie	617 mg/kg es: Rat d: OECD Test Guideline 401	
Acute inhalation toxicity		Classification based on Annex VI 2008/EC.	of regulation
		toxicity estimate: 11 mg/l d: Calculation method	
Acute dermal toxicity		Classification based on Annex VI 2008/EC.	of regulation
		toxicity estimate: 2,500 mg/kg d: Calculation method	
Skin corrosion/irritation Acetonitrile	Result Metho	es: Rabbit :: No skin irritation d: OECD Test Guideline 404 ure time: 4 h	
Serious eye damage/eye irritation		es: Rabbit :: Irritating to eyes.	
Skin sensitisation Acetonitrile	Result	er Test es: Guinea pig t: Did not cause sensitisation on I d: OECD	aboratory animals.
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: Note: No d	ata available	
		are conclusive although
: Note: No d	ata available	
: Note: No d	ata available	
: Assessment : The substance or mixture is classified as specifi target organ toxicant, single exposure, category 1.		
: Note :No data available		
: No data ava	ailable	
The substa toxicant, si May cause May cause	nce or mixture is classified a ngle exposure, category 1. convulsions. neurotoxic effects.	as specific target organ
LC50: 1,64 Exposure t	0 mg/l ime: 96 h	d minnow)
		are conclusive although
10	0/15	
	 Note: Not of insufficient Note: No d Note: No d Assessmentarget orgation Note : No d Note : No d STOT - sin The substatoxicant, si May cause Based on H flow-throug LC50: 1,64 Exposure to Species: P Note: Note: Note consufficient 	 target organ toxicant, single exposure, Note :No data available No data available STOT - single exposure: The substance or mixture is classified a toxicant, single exposure, category 1. May cause convulsions. May cause neurotoxic effects. Based on Human Evidence.

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Toxicity to algae			
Acetonitrile	: static test NOEC: 400 mg. Exposure time: Species: Phaec		
	static test ErC50: 9,696 m Exposure time: Species: Phaec		
Toxicity to bacteria	: static test NOEC: 320 mg, Exposure time: Species: activat Method: OECD	30 min ted sludge	
Persistence and degradab	lity		
Biodegradability	: Note: No data a	available	
Bioaccumulative potential			
Bioaccumulation	: Note: No data a	available	
Mobility in soil			
Mobility	: Note: No data a	available	
DISPOSAL CONSIDERATIO	NS		
WDPCL Waste Disposal an Public Cleansing Law	d : Specially Contro	olled Industrial Waste	
Disposal methods	: In accordance v	with local and national re	egulations.
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Honeywell SAFETY DATA SHEET Acetonitrile 60004-6X1L Version 1.6 Issuing date 12/14/2016 Print Date 05/08/2024 Revision Date 05/06/2024 **14. TRANSPORT INFORMATION** ADR UN/ID No. : UN 1648 Description of the goods : ACETONITRILE Class : 3 Class Packing group Classification Code : 11 : F1 Hazard Identification Number : 33 Labels : 3 ΙΑΤΑ : UN 1648 UN/ID No. Description of the goods : Acetonitrile : 3 Class Packing group : 11 Labels : 3 Packing instruction (cargo : 364 aircraft) : 353 Packing instruction (passenger aircraft) Packing instruction : Y341 (passenger aircraft) IMDG Description of the goods : UN 1648 Class : 3 Packing aroup : ACETONITRILE Packing group : 3 Labels : F-E EmS Number 1 EmS Number 2 : S-D

15. REGULATORY INFORMATION

Marine pollutant

National regulatory information Chemical Substance : Listed

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: no

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Control Law DES (JP)			Monitoring Chemical Substanc nce: (2)-1508	e.
Substances Sul Notified Names JP MSDSD			old Concentration: 1 % wt 15	
JP MSDSD Vessel Safety L JP VSL	aw :		able liquids (Article 2 and 3 of ru of dangerous goods and its At	
Aviation Law JP AVL	:		able liquid (Article 194 of The E n Law and its Attached Table 1)	
Fire Service Lav	N	Type Hazar Water	9 4 Flammable liquids 1 petroleums dous rank II soluble away from fire	
Poisonous and Substances Co		32.3	erious substance not for pharmanitrile 75-05-8	aceutical use
Other internation	onal regulation	S		
Notification sta USA. List of Act Substances on Substances Con (TSCA) Chemic Substances Inv amended	ive the Toxic ntrol Act al	: All sub	ostances listed as active on the	e TSCA inventory
Australian Inver Industrial Chem			mponents are listed on the inve tions/restrictions apply	entory, regulatory
Canada. Dome	stic	: All cor	mponents of this product are or 13/15	n the Canadian DSL

Honeywell SAFETY DATA SHEET Acetonitrile 60004-6X1L Version 1.6 Issuing date 12/14/2016 Revision Date 05/06/2024 Print Date 05/08/2024 Substances List (DSL), as amended 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. Inventory of : On the inventory, or in compliance with the inventory Chemicals and Chemical Substances (PICCS) China. Inventory of Existing : On the inventory, or in compliance with the inventory Chemical Substances (IECSC) Taiwan Chemical Substance : On the inventory, or in compliance with the inventory Inventory (TCSI) Thailand. Existing Chemicals : On the inventory, or in compliance with the inventory Inventory from FDA (TECI List) **16. OTHER INFORMATION** HMIS III NFPA Health hazard : 2* 2 Flammability : 3 3 : 0 Physical Hazard 0 Instability : * - 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** 14/15

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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: 01/06/2021

Revision Date: 05/06/2024 Version 1.6 Issuing date 12/14/2016 Prepared by Honeywell Energy and Sustainabilty Solutions Product Stewardship Group Product Stewardship Group