SAFETY DATA SHEET		Honeywell Burdick & Jackson [™]
Acetonitrile		
34442-2.5L		
Version 1.6 Issuing date 12/	14/2016 Revision Date 05/06/2024	Print Date 05/08/2024
1. IDENTIFICATION OF THE SUB	3STANCE/MIXTURE AND OF THE COI	MPANY/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 See GmbH Wunstorfer Straße 40 Seelze, 30926 Germany 	lze
For further information, please contact:	: 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 Transportation (CHEMTREC): 1-8 527-3887 In Japan: 0800-300-5842 	
2. HAZARDS IDENTIFICATION		
Classification of the substa	nce or mixture	
Classification of the substance or mixture	: Flammable liquids, Category 2 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalati Eye irritation, Category 2A Specific target organ toxicity - sing Central nervous system	
GHS Label elements, includ	ling precautionary statements	
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Symbol(s)			
Signal word	: Dan	ger	
Hazard statements	Harr Caus Harr	ly flammable liquid and vapour. nful if swallowed. ses serious eye irritation. nful if inhaled. ses damage to organs.	
Precautionary statements	Keep smo Keep Grou Use Use Take Do r Was Do r Use Wea	vention: b away from heat/ sparks/ open fla king. b container tightly closed. und/bond container and receiving of explosion-proof electrical/ ventilat only non-sparking tools. e precautionary measures against ot breathe dust/ fume/ gas/ mist/ h skin thoroughly after handling. tot eat, drink or smoke when using only outdoors or in a well-ventilate r protective gloves/ protective clot ection.	equipment. ing/ lighting equipment. static discharge. vapours/ spray. g this product. ed area.
	IF S phys IF O cont IF IN posit IF IN Rem rinsit IF ey If ey In ca	ponse: WALLOWED: Call a POISON CEI ician if you feel unwell. Rinse more N SKIN (or hair): Remove/ Take of aminated clothing. Rinse skin with IHALED: Remove victim to fresh a tion comfortable for breathing. I EYES: Rinse cautiously with wat hove contact lenses, if present and ng. cposed: Call a POISON CENTER e irritation persists: Get medical ac use of fire: Use dry sand, dry chem of for extinction.	uth. off immediately all o water/ shower. air and keep at rest in a er for several minutes. d easy to do. Continue or doctor/ physician. dvice/ attention.
	Stor	age:	
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		Store Dispo			ol. roved waste disposal
3. COMPOSITION	I/INFORMATION OF		EDIENTS		
Formula	:	C2H3N	1		
Chemical nat	ure :	Substa	ince		
Chemical nar	ne			CAS-No.	Concentration
Acetonitrile Acetonitrile			-	75-05-8	100.00 %
4. FIRST AID ME	ASURES				
Inhalation	:	lf not b lf breat Use ox presen	ve to fresh air. reathing, give artifi thing is difficult, giv tygen as required, t. physician.	e oxygen.	fied operator is
Skin contact	:	minute Take o Wash	off immediately wit s. ff contaminated clo contaminated cloth physician.	othing and shoes	s immediately.
Eye contact	:	for at le	immediately with p east 15 minutes. physician.	lenty of water, al	so under the eyelids,
Ingestion	:	Do not Immed	physician. induce vomiting w liate medical attent give anything by m	ion is required.	
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SAFETY DATA SHEET Honeyw Burdick & Jackson™ Acetonitrile 34442-2.5L Version 1.6 Issuing date 12/14/2016 Revision Date 05/06/2024 Print Date 05/08/2024 Notes to physician : Treat as cyanide poisoning. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. **5. FIREFIGHTING MEASURES** Suitable extinguishing media : Carbon dioxide (CO2) Dry chemical Alcohol-resistant foam Cool closed containers exposed to fire with water spray. Unsuitable extinguishing : Do not use a solid water stream as it may scatter and spread media fire. Specific hazards during : Flammable. 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: Hydrogen cyanide (hydrocyanic acid) Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. Special protective equipment : Wear self-contained breathing apparatus and protective suit. for firefighters 6. ACCIDENTAL RELEASE MEASURES Personal precautions, : Wear personal protective equipment. protective equipment and Immediately evacuate personnel to safe areas. emergency procedures 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. : Prevent further leakage or spillage if safe to do so. Environmental precautions Prevent product from entering drains. Discharge into the environment must be avoided. 4/15

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	Do not flush into surface water or sanit Do not allow run-off from fire fighting to courses.	
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, diatomaceo and transfer to a container for disposal national regulations (see section 13).	us earth, vermiculite)
HANDLING AND STORAGE		
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 cloth 	ing.
Advice on protection against fire and explosion	 Keep away from fire, sparks and heate Take precautionary measures against Ensure all equipment is electrically gro transfer operations. Use explosion-proof equipment. Keep product and empty container awa ignition. No sparking tools should be used. No smoking. 	static discharges. unded before beginning
Storage Conditions for safe storage, including any incompatibilities	: Store in area designed for storage of fl Protect from physical damage. Keep containers tightly closed in a dry,	-
	ventilated place. Containers which are opened must be kept upright to prevent leakage. Keep away from heat and sources of ic	carefully resealed and

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		Store Conta Do no	away from direct sunlight. away from incompatible subst ainer hazardous when empty. of pressurize, cut, weld, braze, se containers to heat or source	solder, drill, grind or
Component Contains no Appropriate Use with loc Prevent vap	e engineering cont al exhaust ventilatio our buildup by prov	control ; coupation rols on. ding ade	parameters al exposure limit values. equate ventilation during and a	
Respiratory			as personal protective equi	
		equip		
Hand protec	tion	Glove	nt-resistant gloves as must be inspected prior to unce when worn.	se.
Eye protecti	on	Wear Safety If spla	ot wear contact lenses. as appropriate: y glasses with side-shields ashes are likely to occur, wear: les or face shield, giving comp	
Skin and bo	dy protection	Solve Flame If spla	as appropriate: nt-resistant apron e retardant antistatic protective ashes are likely to occur, wear: ctive suit	
Hygiene me	asures	Wash produ Keep Remo	h using do not eat, drink or smo hands before breaks and imm lot. working clothes separately. bye and wash contaminated clo ot swallow. 6/15	nediately after handling the

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	Avoid breathing vapours, mist or gas.	
	Avoid contact with skin, eyes and clot	hing.
Protective measures	: Ensure that eyewash stations and saf the workstation location.	ety showers are close to
	Legal requirements are to be consider selection, use and care of personal pr	
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)	
	147 hPa at 30 °C(86 °F)	
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Honeyw SAFETY DATA SHEET Burdick & Jackson™ Acetonitrile 34442-2.5L Version 1.6 Issuing date 12/14/2016 Revision Date 05/06/2024 Print Date 05/08/2024 Vapour density : 1.42 Note: (Air = 1.0)Density : 0.7857 g/cm3 at 20 °C Water solubility : Note: completely miscible Partition coefficient: n-: log Pow: -0.34 octanol/water Ignition temperature : 524 °C Viscosity, kinematic : Note: No data available Molecular weight : 41.05 g/mol **10. STABILITY AND REACTIVITY** Chemical stability : Stable under normal conditions. Possibility of hazardous : Hazardous polymerisation does not occur. reactions Conditions to avoid : Heat, flames and sparks. Keep away from direct sunlight. Incompatible materials to : Acids avoid Bases Oxidizing agents Reducing agents Sulfites Perchlorates May attack many plastics, rubbers and coatings. Hazardous decomposition : In case of fire hazardous decomposition products may be products produced such as: Hydrogen cyanide (hydrocyanic acid)

nitrogen (NOx), dense black smoke.

Carbon dioxide (CO2), carbon monoxide (CO), oxides of

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11. TOXICOLOGICAL INFORMAT	ION	
Information on likely routes of exposure	: Inhalation, Eye contact, Skin contac	t, Ingestion
Acute oral toxicity	: LD50: 617 mg/kg Species: Rat Method: OECD Test Guideline 401	
Acute inhalation toxicity	: Note: Classification based on Annex 1272/2008/EC.	k VI of regulation
	: Acute toxicity estimate: 11 mg/l Method: Calculation method	
Acute dermal toxicity	: Note: Classification based on Annex 1272/2008/EC.	K VI of regulation
	: Acute toxicity estimate: 2,500 mg/k Method: Calculation method	g
Skin corrosion/irritation Acetonitrile	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404 Exposure time: 4 h	
Serious eye damage/eye irritation	: Species: Rabbit Result: Irritating to eyes.	
Skin sensitisation Acetonitrile	: Buehler Test Species: Guinea pig Result: Did not cause sensitisation of Method: OECD	on laboratory animals.
Respiratory sensitisation Acetonitrile	: Note: No data available	
Germ cell mutagenicity	: Note: Not classified due to data whi insufficient for classification.	ch are conclusive although
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Carcinogenicity	: Note	e: No data available	
Reproductive toxicity	: Note	e: No data available	
Specific target organ toxicity - single exposure		essment :The substance or mixture et organ toxicant, single exposure, o	
Specific target organ toxicity - repeated exposure	: Note	e :No data available	
Aspiration toxicity	: No da	ata available	
Further information Acetonitrile	The toxic May May	T - single exposure: substance or mixture is classified a ant, single exposure, category 1. cause convulsions. cause neurotoxic effects. ed on Human Evidence.	is specific target organ
12. ECOLOGICAL INFORMATIO	N		
Aquatic and ecotoxicity			
Toxicity to fish	LC50 Expo	-through test 0: 1,640 mg/l osure time: 96 h cies: Pimephales promelas (fathead	d minnow)
Toxicity to daphnia and other aquatic invertebrates		e: Not classified due to data which a fficient for classification.	are conclusive although
Toxicity to algae Acetonitrile	NOE Expo	c test C: 400 mg/l osure time: 72 h cies: Phaeodactylum tricornutum	
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		static	test	
): 9,696 mg/l sure time: 72 h	
			es: Phaeodactylum tricornutum	
Toxicity to bac	rteria	: static	test	
TOXICITY TO Dat		NOEC	C: 320 mg/l	
		Expos Specie	sure time: 30 min es: activated sludge	
			od: OECD 209	
Persistence a	nd degradability	/		
Biodegradabil	ity	: Note:	No data available	
Bioaccumulat	ive potential			
Bioaccumulat	ion	: Note:	No data available	
Mobility in so	il			
Mobility		: Note:	No data available	
3. DISPUSAL CC	DNSIDERATION	5		
WDPCL Wast Public Cleans	te Disposal and ing Law	: Specia	ally Controlled Industrial Waste	
Disposal meth	nods	: In acc	ordance with local and national	regulations.
4. TRANSPORT				
ADR				
UN/ID No.		: UN 16	648	
			11/15	

Honeywe SAFETY DATA SHEET Burdick & Jackson™ Acetonitrile 34442-2.5L Version 1.6 Issuing date 12/14/2016 Revision Date 05/06/2024 Print Date 05/08/2024 Description of the goods : ACETONITRILE Class : 3 Classification Code : 11 : F1 Hazard Identification Number : 33 Labels : 3 ΙΑΤΑ : UN 1648 UN/ID No. Description of the goods : Acetonitrile : 3 Class : 11 Packing group Labels : 3 Packing instruction (cargo : 364 aircraft) Packing instruction : 353 (passenger aircraft) Packing instruction : Y341 (passenger aircraft) IMDG UN/ID No. : UN 1648 Description of the goods : ACETONITRILE Class : 3 Packing group : 11 : 3 Labels EmS Number 1 : F-E EmS Number 2 : S-D Marine pollutant : no **15. REGULATORY INFORMATION** National regulatory information Chemical Substance : Listed Control Law Type II Monitoring Chemical Substance. DES (JP) Reference: (2)-1508 Substances Subject to be : Notified Names Threshold Concentration: 1 % wt 15 JP MSDSD 12/15

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Vessel Safety Law JP VSL		able liquids (Article 2 and 3 of rule e of dangerous goods and its Atta	
Aviation Law JP AVL		able liquid (Article 194 of The Enf n Law and its Attached Table 1)	orcement Rules of
Fire Service Law	Type Haza Wate	o 4 Flammable liquids 1 petroleums rdous rank II r soluble away from fire	
Poisonous and Deleterious Substances Control Law	32.3	erious substance not for pharmac pnitrile 75-05-8	ceutical use
Other international regulation	ons		
Notification status USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended		bstances listed as active on the T	SCA inventory
Australian Inventory of Industrial Chemicals		mponents are listed on the invent ations/restrictions apply	tory, regulatory
Canada. Domestic Substances List (DSL), as amended	: All co	mponents of this product are on t	he Canadian DSL
Japan. Kashin-Hou Law List	: On th	e inventory, or in compliance with	the inventory

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Inventory (KECI)

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)	: On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances (IECSC)	: On the inventory, or in compliance with the inventory
Taiwan Chemical Substance Inventory (TCSI)	: On the inventory, or in compliance with the inventory
Thailand. Existing Chemicals Inventory from FDA (TECI List)	: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
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.

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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 Sustainability Solutions Product Stewardship Group Product Stewardship Group