SAFETY DATA SHEET			Ioneywell Riedel-de Haën™
Acetonitrile 34896-1L			
Version 1.6 Issuing date 12/	/14/2016	Revision Date 05/06/2024	Print Date 05/08/2024
1. IDENTIFICATION OF THE SU	BSTANCE/	MIXTURE AND OF THE COMPA	NY/UNDERTAKING
Product information			
Trade name	: Acetor	itrile	
Number	: 00000	0020248	
Recommended use of the chemical and restrictions on use	: Labora	tory chemicals	
Manufacturer or supplier's details	GmbĤ Wunst	well Specialty Chemicals Seelze orfer Straße 40 , 30926 ny	
For further information, please contact:	+1-231	368-0050 -726-3171	
In case of emergency call	: Medic : Trans 527-38	ay-Friday, 9:00am-5:00pm) al: 1-800-498-5701 or +1-303-38 portation (CHEMTREC): 1-800-4 87 an: 0800-300-5842	
2. HAZARDS IDENTIFICATION			
Classification of the substa	ance or mix	ture	
Classification of the substance or mixture	Acute Acute Eye i Spec	mable liquids, Category 2 e toxicity, Category 4, Oral e toxicity, Category 4, Inhalation rritation, Category 2A ific target organ toxicity - single e ral nervous system	exposure, Category 1,
GHS Label elements, inclue	ding preca	utionary statements	
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Symbol(s)			
Signal word	: Dang	ger	
Hazard statements	Harn Caus Harn	ly flammable liquid and vapour. hful if swallowed. ses serious eye irritation. hful if inhaled. ses damage to organs.	
Precautionary statements	Keep smol Keep Grou Use Use Take Do n Was Do n Use Wea	ention: a way from heat/ sparks/ open flacking. b container tightly closed. and/bond container and receiving explosion-proof electrical/ ventilar only non-sparking tools. e precautionary measures against ot breathe dust/ fume/ gas/ mist/ h skin thoroughly after handling. ot eat, drink or smoke when using only outdoors or in a well-ventilat r protective gloves/ protective closection.	equipment. ting/ lighting equipment. static discharge. vapours/ spray. g this product. ed area.
	IF S phys IF OI conta IF IN posit IF IN Rem rinsir IF ex If eye In ca	MALLOWED: Call a POISON CE ician if you feel unwell. Rinse mo N SKIN (or hair): Remove/ Take of aminated clothing. Rinse skin with HALED: Remove victim to fresh ion comfortable for breathing. EYES: Rinse cautiously with wa ove contact lenses, if present and g. posed: Call a POISON CENTER e irritation persists: Get medical a se of fire: Use dry sand, dry cher for extinction.	uth. off immediately all n water/ shower. air and keep at rest in a ter for several minutes. d easy to do. Continue or doctor/ physician. dvice/ attention.
	Stor	age:	
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Exetonitrile 4896-1L ersion 1.6 Issuing date 12/14 Substitution COMPOSITION/INFORMATION (Formula Chemical nature Chemical name Acetonitrile Acetonitrile FIRST AID MEASURES Inhalation Skin contact Eye contact	Store Store Disp	Revision Date 05/06/2024 e in a well-ventilated place. Kee e locked up.	Print Date 05/08/202		
ersion 1.6 Issuing date 12/14 COMPOSITION/INFORMATION (Formula Chemical nature Acetonitrile Acetonitrile FIRST AID MEASURES Inhalation Skin contact	Store Store Disp	e in a well-ventilated place. Kee e locked up. posal:			
Formula Chemical nature <u>Chemical name</u> Acetonitrile Acetonitrile FIRST AID MEASURES Inhalation Skin contact	Store Disp Dispo	e locked up.	∍p cool.		
Formula Chemical nature <u>Chemical name</u> Acetonitrile Acetonitrile FIRST AID MEASURES Inhalation Skin contact	Store Disp Dispo	e locked up.			
Formula Chemical nature <u>Chemical name</u> Acetonitrile Acetonitrile FIRST AID MEASURES Inhalation Skin contact			n approved waste disposal		
Chemical nature Chemical name Acetonitrile Acetonitrile FIRST AID MEASURES Inhalation Skin contact)N INGR	REDIENTS			
Chemical name Acetonitrile Acetonitrile FIRST AID MEASURES Inhalation Skin contact	: C2H3	3N			
Acetonitrile Acetonitrile FIRST AID MEASURES Inhalation Skin contact	: Subst	tance			
Acetonitrile FIRST AID MEASURES Inhalation Skin contact		CAS-No.	Concentration		
Inhalation Skin contact		75-05-8	100.00 %		
	lf not If brea Use o prese	ove to fresh air. breathing, give artificial respira eathing is difficult, give oxygen. oxygen as required, provided a ent. a physician.			
Eye 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 for at least 15 minutes. Call a physician.				
Ingestion	Do no Imme	a physician. ot induce vomiting without medi ediate medical attention is requi er give anything by mouth to an	ired.		
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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 v	with water spray.
Unsuitable extinguishing media	: Do not use a solid water stream as it ma fire.	ay scatter and spread
Specific hazards during firefighting	 Flammable. Vapours may form explosive mixtures w Vapours are heavier than air and may s 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. 	pread along floors. vork site before n products may be
Special protective equipment for firefighters	: Wear self-contained breathing apparatu	s and protective suit.
ACCIDENTAL RELEASE MEAS	URES	
Personal precautions, protective equipment and emergency procedures	 Wear personal protective equipment. Immediately evacuate personnel to safe Keep people away from and upwind of s Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing 	spill/leak.
Environmental precautions	: Prevent further leakage or spillage if sat Prevent product from entering drains. Discharge into the environment must be	
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			t flush into surface water or sanit t allow run-off from fire fighting to es.	
Methods and n containment ar		No spa Use ex Conta materi and tra	ate the area. arking tools should be used. xplosion-proof equipment. in spillage, soak up with non-con al, (e.g. sand, earth, diatomaced ansfer to a container for disposal al regulations (see section 13).	ous earth, vermiculite)
HANDLING AND	STORAGE			
Handling				
Precautions fo	r safe handling	Use of Keep o Do not Do not Avoid	personal protective equipment. nly in well-ventilated areas. container tightly closed. t smoke. t swallow. breathing vapours, mist or gas. contact with skin, eyes and cloth	ing.
Advice on prot		: Keep a Take p Ensure transfe Use ez Keep p ignition No spa	away from fire, sparks and heate precautionary measures against e all equipment is electrically gro er operations. xplosion-proof equipment. product and empty container awa	ed surfaces. static discharges. ounded before beginning
Storage				
Conditions for including any incompatibilitie	-	Protec Keep o ventila Contai kept u	in area designed for storage of fl et from physical damage. containers tightly closed in a dry, ited place. iners which are opened must be pright to prevent leakage. away from heat and sources of ig	cool and well-

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Acetonitrile					
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		Store Contai Do not	away from direct sunlight. away from incompatible sub iner hazardous when empty t pressurize, cut, weld, brazo e containers to heat or sourc	e, solder, drill, grind or	
Contains no Appropriat Use with loo	e engineering contr	cupationa ols	arameters al exposure limit values. quate ventilation during and	after use.	
Individual	protection measures	s, such	as personal protective equ	uipment (PPE)	
Respiratory	protection :	In cas equipr	e of insufficient ventilation, v nent.	vear suitable respiratory	
Hand protec	ction :	Gloves	nt-resistant gloves s must be inspected prior to ce when worn.	use.	
Eye protect	ion :	Wear Safety If splas	t wear contact lenses. as appropriate: glasses with side-shields shes are likely to occur, wea es or face shield, giving com		
Skin and bo	ody protection :	Solver Flame If spla	as appropriate: nt-resistant apron retardant antistatic protectiv shes are likely to occur, wea tive suit		
Hygiene me	easures :	Wash produc Keep Remo		mediately after handling the	

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etonitrile	
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	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
Protective measures	 Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
PHYSICAL AND CHEMICAL	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)

SAFETY DATA SHEET Honeywe Riedel-de Haën™ Acetonitrile 34896-1L 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** : Stable under normal conditions. Chemical stability 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) Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. 8/15

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11. TOXICOLOGICAL INFORMATI	ON	
Information on likely routes of exposure	: Inhalation, Eye contact, Skin contact	ct, Ingestion
Acute oral toxicity	: LD50: 617 mg/kg Species: Rat Method: OECD Test Guideline 401	
Acute inhalation toxicity	: Note: Classification based on Anne 1272/2008/EC.	x VI of regulation
	: Acute toxicity estimate: 11 mg/l Method: Calculation method	
Acute dermal toxicity	: Note: Classification based on Anne 1272/2008/EC.	x VI of regulation
	: Acute toxicity estimate: 2,500 mg/k Method: Calculation method	٢g
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 Method: OECD	on laboratory animals.
Respiratory sensitisation Acetonitrile	: Note: No data available	
Germ cell mutagenicity	: Note: Not classified due to data wh insufficient for classification.	ich are conclusive although
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cetonitrile 4896-1L /ersion 1.6	loouing data 12/1	4/2016	Revision Date 05/06/2024	Print Date 05/08/20	
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Carcinogen	icity	: Note:	No data available		
		N 1 <i>i</i>	N I 17 111		
Reproductiv Specific tar - single exp	get organ toxicity	: Asses	No data available sment :The substance or mixture organ toxicant, single exposure,		
Specific tar	get organ toxicity exposure	: Note :	No data available		
Aspiration t	oxicity	: No data	a available		
Further info Acetonitrile		The si toxica May c May c	- single exposure: ubstance or mixture is classified nt, single exposure, category 1. ause convulsions. ause neurotoxic effects. I on Human Evidence.	as specific target organ	
2. ECOLOGIC	AL INFORMATION	I			
Aquatic and	l ecotoxicity				
Toxicity to f	ish	LC50: Expos	nrough test 1,640 mg/l sure time: 96 h es: Pimephales promelas (fathea	ad minnow)	
Toxicity to a aquatic inve	daphnia and other ertebrates				
Toxicity to a Acetonitrile	algae	Expos	test 2: 400 mg/l sure time: 72 h es: Phaeodactylum tricornutum		

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	static	test	
	ErC5	0: 9,696 mg/l sure time: 72 h	
		es: Phaeodactylum tricornutum	
Toxicity to bacteria	: static	test	
	NOE	C: 320 mg/l sure time: 30 min	
	Speci	es: activated sludge od: OECD 209	
	Weth		
Persistence and degradabili	ty		
Biodegradability	: Note:	No data available	
Bioaccumulative potential			
Bioaccumulation	: Note:	No data available	
Mobility in soil			
Mobility	: Note:	No data available	
13. DISPOSAL CONSIDERATION	NS		
WDPCL Waste Disposal and	: Speci	ally Controlled Industrial Waste	
Public Cleansing Law	-		
Disposal methods	: In acc	cordance with local and national re	egulations.
14. TRANSPORT INFORMATION			
ADR			
UN/ID No.	: UN 10	648	
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Description of the goods	: ACET		
		OTTITULL	
Class Packing group	: 3 : II		
Classification Code	: F1		
Hazard Identification Nu			
Labels	: 3		
ΙΑΤΑ			
UN/ID No.	: UN 16		
Description of the goods Class	: Aceto : 3	nitrile	
Packing group	: 1		
Labels	: 3		
Packing instruction (cargaircraft)	jo : 364		
Packing instruction (passenger aircraft)	: 353		
Packing instruction (passenger aircraft)	: Y341		
IMDG			
UN/ID No.	: UN 16		
Description of the goods Class	: ACET : 3	ONITRILE	
Packing group	:		
Labels	: 3		
EmS Number 1	: F-E		
EmS Number 2	: S-D		
Marine pollutant	: no		
5. REGULATORY INFORM	ATION		
National regulatory inf	ormation		
Chemical Substance	: Listed		
Control Law		Monitoring Chemical Substance	
DES (JP)	Referer	nce: (2)-1508	
Substances Subject to b Notified Names JP MSDSD		old Concentration: 1 % wt 15	
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Vessel Safety Law JP VSL		ds (Article 2 and 3 of rule erous goods and its Atta	
Aviation Law JP AVL		d (Article 194 of The Enf d its Attached Table 1)	orcement Rules of
Fire Service Law	: Group 4 Flamr Type 1 petrole Hazardous rar Water soluble Keep away fro	eums hk II	
Poisonous and Deleteriou Substances Control Law	s : Deleterious substance not for pharmaceutical use 32.3 Acetonitrile 75-05-8		
Other international regu	ations		
Notification status USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended	: All substances	isted as active on the T	SCA inventory
Australian Inventory of Industrial Chemicals	: All component obligations/res	s are listed on the invent trictions apply	ory, regulatory
Canada. Domestic Substances List (DSL), a amended		s of this product are on t	he Canadian DSL
Japan. Kashin-Hou Law I	ist : On the invento	ory, or in compliance with	the inventory
Korea. Existing Chemical	S: On the inventor 13/15	ory, 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 Sustainabilty Solutions Product Stewardship Group Product Stewardship Group