SAFETY DATA SHEET			<b>loneywell</b> Riedel-de Haën™
Acetonitrile 34851-2.5L			
Version 1.6 Issuing date 12/	14/2016	Revision Date 05/06/2024	Print Date 05/08/2024
1. IDENTIFICATION OF THE SUE	BSTANCE/	MIXTURE AND OF THE COMP	ANY/UNDERTAKING
Product information			
Trade name	: Aceton	itrile	
Number	: 000000	0020248	
Recommended use of the chemical and restrictions on use	: Labora	tory chemicals	
Manufacturer or supplier's details	GmbH Wunste	well Specialty Chemicals Seelze orfer Straße 40 , 30926 ny	
For further information, please contact:	+1-231	368-0050 -726-3171 ay-Friday, 9:00am-5:00pm)	
In case of emergency call	: Medica : Transp 527-38	al: 1-800-498-5701 or +1-303-38 portation (CHEMTREC): 1-800-4	
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, includ	ding preca	utionary statements	
		1/15	

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cetonitrile 4851-2.5L			
/ersion 1.6 Issuing date 12/	14/2016	Revision Date 05/06/2024	Print Date 05/08/202
Symbol(s)			
Signal word	: Danç	jer	
Hazard statements	Harn Caus Harn	ly flammable liquid and vapour. nful if swallowed. ses serious eye irritation. nful 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. nd/bond container and receiving explosion-proof electrical/ ventilar only non-sparking tools. c 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 clo- section.	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 a ion comfortable for breathing. EYES: Rinse cautiously with wa ove contact lenses, if present and og. 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:	
		2/15	

AFETY DATA SHEE	.Т		Honeywell Riedel-de Haën <sup>*</sup>
cetonitrile			
<b>4851-2.5L</b> ersion 1.6 Issuing date	e 12/14/2016	Revision Date 05/06/2024	Print Date 05/08/2024
		e in a well-ventilated place. Keep e locked up.	cool.
	Disp	osal: ose of contents/ container to an a	approved waste disposal
COMPOSITION/INFORMA			
Formula	: C2H3	Ν	
Chemical nature	: Subst	ance	
Chemical name		CAS-No.	Concentration
Acetonitrile Acetonitrile		75-05-8	100.00 %
FIRST AID MEASURES			
Inhalation	If not If brea Use o prese	ve to fresh air. breathing, give artificial respiratio athing is difficult, give oxygen. xygen as required, provided a qu nt. physician.	
Skin contact	minute Take Wash	off immediately with plenty of wases. off contaminated clothing and sh contaminated clothing before re physician.	oes immediately.
Eye contact	for at	immediately with plenty of water least 15 minutes. physician.	r, also under the eyelids,
Ingestion	Do no Imme	physician. t induce vomiting without medica diate medical attention is require give anything by mouth to an ur	ed.
		3/15	

SAFETY DATA SHEET	Honeywel Riedel-de Haër
cetonitrile	
<b>4851-2.5L</b> /ersion 1.6 Issuing date 12/14	1/2016 Revision Date 05/06/2024 Print Date 05/08/202
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.
FIREFIGHTING MEASURES	
Suitable extinguishing media	: Carbon dioxide (CO2) Dry chemical Alcohol-resistant foam Cool closed containers exposed to fire with water spray.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting	<ul> <li>Flammable.</li> <li>Vapours may form explosive mixtures with air.</li> <li>Vapours are heavier than air and may spread along floors.</li> <li>Vapors may travel to areas away from work site before igniting/flashing back to vapor source.</li> <li>In case of fire hazardous decomposition products may be produced such as:</li> <li>Hydrogen cyanide (hydrocyanic acid)</li> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.</li> </ul>
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
ACCIDENTAL RELEASE MEAS	URES
Personal precautions, protective equipment and emergency procedures	<ul> <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. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing.</li> </ul>
Environmental precautions	: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Discharge into the environment must be avoided.
	4/15

SAFETY DATA SHI	EI		<b>loneywel</b> Riedel-de Haën
cetonitrile			
4851-2.5L			
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	Do n	at fluck into ourfood water or oppi	
		ot flush into surface water or sanit ot allow run-off from fire fighting to ses.	
Methods and materia containment and clea	ning up No sy Use o Conta mate and t	late the area. parking tools should be used. explosion-proof equipment. ain spillage, soak up with non-con rial, (e.g. sand, earth, diatomaceo ransfer to a container for disposal nal regulations (see section 13).	ous earth, vermiculite)
HANDLING AND STOP	AGE		
Handling			
Precautions for safe h	Use of Keep Do no Do no Avoid	r personal protective equipment. only in well-ventilated areas. o container tightly closed. ot smoke. ot swallow. d breathing vapours, mist or gas. d contact with skin, eyes and cloth	ing.
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 beginn transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat and sou ignition. No sparking tools should be used. No smoking.		static discharges. unded before beginning	
Storage			
Conditions for safe st including any incompatibilities	Prote Keep ventil Conta kept	e in area designed for storage of fl ect from physical damage. containers tightly closed in a dry, lated place. ainers which are opened must be upright to prevent leakage. away from heat and sources of ig 5/15	, cool and well- carefully resealed and

SAFETY DA	TA SHEET			Honeywell Riedel-de Haën™
Acetonitrile				
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		Store Conta Do no	away from direct sunlight. away from incompatible substar iner hazardous when empty. t pressurize, cut, weld, braze, so e containers to heat or sources	older, drill, grind or
Component	CONTROLS/PERSO ts with workplace of substances with oc	control p		
Appropriate	e engineering cont	rols		
Use with loc	al exhaust ventilatio	on.	quate ventilation during and afte	er use.
Individual p	protection measure	es, such	as personal protective equipn	nent (PPE)
Respiratory	protection	: In cas equipi	e of insufficient ventilation, wear ment.	· suitable respiratory
Hand protec	tion	Glove	nt-resistant gloves s must be inspected prior to use ce when worn.	۱.
Eye protectio	on	Wear Safety If spla	t wear contact lenses. as appropriate: / glasses with side-shields shes are likely to occur, wear: es or face shield, giving complet	te protection to eyes
Skin and boo	dy protection	Solve Flame If spla	as appropriate: nt-resistant apron e retardant antistatic protective c shes are likely to occur, wear: ctive suit	lothing.
Hygiene mea	asures	Wash produ Keep Remo	using do not eat, drink or smoke hands before breaks and immer ct. working clothes separately. we and wash contaminated cloth t swallow. 6/15	diately after handling the

AFETY DATA SHEET	Honeywel Riedel-de Haë
etonitrile	
851-2.5L rsion 1.6 Issuing date 12	2/14/2016 Revision Date 05/06/2024 Print Date 05/08/20
	Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing.
Protective measures	<ul> <li>Ensure that eyewash stations and safety showers are close to the workstation location.</li> <li>Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.</li> </ul>
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 34851-2.5L 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** : 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

SAFETY DATA SHEET		<b>loneywell</b> Riedel-de Haën™
Acetonitrile		
<b>34851-2.5L</b> Version 1.6 Issuing date 12/14	4/2016 Revision Date 05/06/2024	Print Date 05/08/2024
11. TOXICOLOGICAL INFORMATI	ION	
	: Inhalation, Eye contact, Skin contact, I	ngestion
exposure Acute oral toxicity	: LD50: 617 mg/kg Species: Rat Method: OECD Test Guideline 401	
Acute inhalation toxicity	: Note: Classification based on Annex V 1272/2008/EC.	I of regulation
	: Acute toxicity estimate: 11 mg/l Method: Calculation method	
Acute dermal toxicity	: Note: Classification based on Annex V 1272/2008/EC.	I of regulation
	: Acute toxicity estimate: 2,500 mg/kg Method: Calculation method	
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 on Method: OECD	laboratory animals.
Respiratory sensitisation Acetonitrile	: Note: No data available	
Germ cell mutagenicity	: Note: Not classified due to data which insufficient for classification.	are conclusive although
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SAFETY DATA SHEET			<b>Ioneywel</b> Riedel-de Haër		
Acetonitrile 34851-2.5L Version 1.6 Issuing date 12	/14/2016	Revision Date 05/06/2024	Print Date 05/08/202		
Carcinogenicity	: Note:	No data available			
Reproductive toxicity	: Note:	No data available			
Specific target organ toxicity - single exposure		: Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.			
Specific target organ toxicity - repeated exposure	: Note :	: Note :No data available			
Aspiration toxicity : No		a available			
The toxic May May		- single exposure: ubstance or mixture is classified a nt, single exposure, category 1. ause convulsions. ause neurotoxic effects. d on Human Evidence.	as specific target organ		
2. ECOLOGICAL INFORMATIO	<b>N</b>				
Aquatic and ecotoxicity					
LC50: 1 Exposu		nrough test 1,640 mg/l sure time: 96 h es: Pimephales promelas (fathea	d minnow)		
Toxicity to daphnia and other aquatic invertebrates	other : Note: Not classified due to data which are conclusive althous insufficient for classification.		are conclusive although		
Toxicity to algae Acetonitrile	Expos	test : 400 mg/l sure time: 72 h es: Phaeodactylum tricornutum			

SAFETY DATA SHEET		E Contraction of the second seco	<b>Ioneywell</b> Riedel-de Haën™
Acetonitrile			
34851-2.5L			
Version 1.6 Issuing date 12/1	4/2016	Revision Date 05/06/2024	Print Date 05/08/2024
	static FrC5	test 0: 9,696 mg/l	
	Expos	sure time: 72 h	
	Зресі	ies: Phaeodactylum tricornutum	
Toxicity to bacteria	: static		
		C: 320 mg/l sure time: 30 min	
	Speci	ies: activated sludge od: OECD 209	
		JU. OECD 203	
Persistence and degradability	у		
Biodegradability	: Note:	No data available	
Bioaccumulative potential			
Bioaccumulation	: Note:	No data available	
Mobility in soil			
Mobility	: Note:	No data available	
13. DISPOSAL CONSIDERATION	S		
WDPCL Waste Disposal and	: Speci	ially Controlled Industrial Waste	
Public Cleansing Law Disposal methods	: In acc	cordance with local and national re	egulations.
			- genericit
14. TRANSPORT INFORMATION			
ADR			
UN/ID No.	: UN 10		
		11/15	

#### Honeywe SAFETY DATA SHEET Riedel-de Haën™ Acetonitrile 34851-2.5L 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 Lacking group Classification Code Hazard Idaar : 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 : 3 Class Packing group : 11 Labels : 3 : F-E EmS Number 1 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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cetonitrile			
<b>1851-2.5L</b> ersion 1.6Issuing date 12	/14/2016	Revision Date 05/06/2024	Print Date 05/08/2024
Vessel Safety Law JP VSL		ble liquids (Article 2 and 3 of rule of dangerous goods and its Atta	
Aviation Law JP AVL		ble liquid (Article 194 of The Enf Law and its Attached Table 1)	orcement Rules of
Fire Service Law	Type 1 Hazarc Water s	4 Flammable liquids petroleums dous rank II soluble way from fire	
Poisonous and Deleterious Substances Control Law	<ul> <li>Deleterious substance not for pharmac</li> <li>32.3</li> <li>Acetonitrile 75-05-8</li> </ul>		eutical use
Other international regulation	ons		
Notification status USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended	: All sub	stances listed as active on the T	SCA inventory
Australian Inventory of Industrial Chemicals		nponents are listed on the invent ions/restrictions apply	ory, regulatory
Canada. Domestic Substances List (DSL), as amended	: All components of this product are on the Canadian 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 13/15	the inventory

## SAFETY DATA SHEET



# Acetonitrile

#### 34851-2.5L Version 1.6

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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.

## SAFETY DATA SHEET



## Acetonitrile

### 34851-2.5L

Version 1.6

Issuing date 12/14/2016

Revision Date 05/06/2024

Print Date 05/08/2024

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