SAFETY DATA SHEET		Honeywell Riedel-de Haën [™]
Acetonitrile		
34481-6X1L		Print Date 05/08/2024
Version 1.6 Issuing date 12/	14/2016 Revision Date 05/06/2024	F fint Date 03/06/2024
1. IDENTIFICATION OF THE SUI	BSTANCE/MIXTURE AND OF THE COM	IPANY/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 (Manday Friday 0:00am 5:00am)	
In case of emergency call	 (Monday-Friday, 9:00am-5:00pm) Medical: 1-800-498-5701 or +1-303 Transportation (CHEMTREC): 1-80 527-3887 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	
	1/15	

SAFETY DATA SHEET			Riedel-de Haë
cetonitrile 4481-6X1L /ersion 1.6 Issuing date 12/	14/2016	Revision Date 05/06/2024	Print Date 05/08/20
Sumbol(a)		• • •	
Symbol(s)			
Signal word	: Danę	ger	
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. and/bond container and receiving explosion-proof electrical/ ventilation only non-sparking tools. b 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 O conta IF IN posit IF IN Rem rinsit IF ex If ey 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 wat ove contact lenses, if present and og. posed: Call a POISON CENTER e irritation persists: Get medical a use of fire: Use dry sand, dry chem of cor 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	

SAFETY DATA SHEET		ł	loneywell Riedel-de Haën™
Acetonitrile			
34481-6X1L Version 1.6 Issuing date 1	2/14/2016	Revision Date 05/06/2024	Print Date 05/08/2024
Version 1.6 Issuing date 1	2/14/2010	Revision Date 05/00/2024	Fillit Date 05/06/2024
	Store Disp e Dispe	ose of contents/ container to an a	
3. COMPOSITION/INFORMATIO	plant.		
Formula	: C2H3		
Chemical nature	: Subst		
	. Subsi		
Chemical name Acetonitrile Acetonitrile		CAS-No. 75-05-8	Concentration 100.00 %
4. FIRST AID MEASURES			
Inhalation	lf not l If brea Use o presei	ove to fresh air. breathing, give artificial respiratio athing is difficult, give oxygen. xygen as required, provided a qu nt. physician.	
Skin contact	minute Take o Wash	off immediately with plenty of wa es. off contaminated clothing and sho contaminated clothing before re- physician.	oes immediately.
Eye contact	for at	immediately with plenty of water least 15 minutes. physician.	, also under the eyelids,
Ingestion	Do no Imme	physician. t induce vomiting without medica diate medical attention is required give anything by mouth to an un	d.
		3/15	

SAFETY DATA SHEET Honeyw Riedel-de Haën" Acetonitrile 34481-6X1L 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. : Wear self-contained breathing apparatus and protective suit. Special protective equipment for firefighters 6. ACCIDENTAL RELEASE MEASURES Personal precautions. : Wear personal protective equipment. Immediately evacuate personnel to safe areas. protective equipment and 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

SAFETY DATA SHEE	Τ	Honeywel Riedel-de Haër
cetonitrile		
4481-6X1L 'ersion 1.6 Issuing date	12/14/2016 Revision Date 05/06/2024	Print Date 05/08/202
	Do not flush into surface water or sa Do not allow run-off from fire fighting courses.	
Methods and materials fo containment and cleaning		eous earth, vermiculite) sal according to local /
HANDLING AND STORAG	E	
Handling		
Precautions for safe hand	 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 closed. 	5.
Advice on protection again fire and explosion	 nst : Keep away from fire, sparks and hear Take precautionary measures again Ensure all equipment is electrically of transfer operations. Use explosion-proof equipment. Keep product and empty container a ignition. No sparking tools should be used. No smoking. 	st static discharges. grounded before beginning
Storage		
Conditions for safe storag including any incompatibilities	 ge, : Store in area designed for storage of Protect from physical damage. Keep containers tightly closed in a diventilated place. Containers which are opened must likept upright to prevent leakage. Keep away from heat and sources of 5/15 	lry, cool and well- be carefully resealed and

SAFETY DATA SHEET			loneywell Riedel-de Haën™
Acetonitrile			
34481-6X1L	44/0040	Devision Data 05/00/2024	
Version 1.6 Issuing date 12/	14/2016	Revision Date 05/06/2024	Print Date 05/08/2024
	Store Conta Do no	away from direct sunlight. away from incompatible substan iner hazardous when empty. t pressurize, cut, weld, braze, so e containers to heat or sources o	lder, drill, grind or
		OTECTION	
8. EXPOSURE CONTROLS/PER: Components with workplac Contains no substances with	e control p	parameters	
Appropriate engineering co Use with local exhaust ventila Prevent vapour buildup by pro	ation.	quate ventilation during and afte	r use.
Individual protection measu	ures, such	as personal protective equipm	nent (PPE)
Respiratory protection	: In cas equipi	e of insufficient ventilation, wear ment.	suitable respiratory
Hand protection	Glove	nt-resistant gloves s must be inspected prior to use. ce when worn.	
Eye protection	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	e protection to eyes
Skin and body protection	Solver Flame If spla	as appropriate: nt-resistant apron e retardant antistatic protective cl shes are likely to occur, wear: ctive suit	othing.
Hygiene measures	Wash produ Keep Remo	using do not eat, drink or smoke hands before breaks and immed ct. working clothes separately. ve and wash contaminated cloth t swallow. 6/15	liately after handling the

AFETY DATA SHEET	Honeywe Riedel-de Ha
etonitrile •481-6X1L ersion 1.6 Issuing date 12	2/14/2016 Revision Date 05/06/2024 Print Date 05/08/20
ersion 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	: 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 34481-6X1L 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	Honeywell Riedel-de Haën™
Acetonitrile 34481-6X1L	
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, Ingestion
exposure Acute oral toxicity	: LD50: 617 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute inhalation toxicity	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
	: Acute toxicity estimate: 11 mg/l Method: Calculation method
Acute dermal toxicity	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
	: 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 laboratory animals. Method: OECD
Respiratory sensitisation Acetonitrile	: Note: No data available
Germ cell mutagenicity	: Note: Not classified due to data which are conclusive although insufficient for classification.
	9/15

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cetonitrile 4481-6X1L				
Version 1.6	Issuing date 12/1	4/2016	Revision Date 05/06/2024	Print Date 05/08/20
Carcinogeni	city	: Note:	No data available	
Reproductiv	e 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 :	No data available:	
Aspiration to	oxicity	: No dat	ta available	
The s toxica May o May o		- single exposure: ubstance or mixture is classified ant, single exposure, category 1. cause convulsions. cause neurotoxic effects. d on Human Evidence.	as specific target organ	
2. ECOLOGICA		l		
Aquatic and	ecotoxicity			
Toxicity to fi	sh	LC50: Expos	hrough test : 1,640 mg/l sure time: 96 h es: Pimephales promelas (fathea	ad minnow)
Toxicity to d aquatic inve	aphnia and other rtebrates		Not classified due to data which icient for classification.	are conclusive although
Toxicity to a Acetonitrile	lgae	Expos	test C: 400 mg/l sure time: 72 h es: Phaeodactylum tricornutum	

SAFETY DATA SHEET		L	
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Acetonitrile			
34481-6X1L			
Version 1.6 Issuing date 12/1	4/2016	Revision Date 05/06/2024	Print Date 05/08/2024
	static		
		0: 9,696 mg/l sure time: 72 h	
		es: Phaeodactylum tricornutum	
- • • • • • • •			
Toxicity to bacteria	: static NOEC	test C: 320 mg/l	
		sure time: 30 min es: activated sludge	
		od: OECD 209	
Persistence and degradability	y		
Biodegradability	: Note:	No data available	
Bioaccumulative potential			
-	· Nata		
Bioaccumulation	: Note:	No data available	
Mobility in soil			
Mobility	: Note:	No data available	
13. DISPOSAL CONSIDERATION	S		
WDPCL Waste Disposal and	· Sneci	ally Controlled Industrial Waste	
Public Cleansing Law	. 0000		
Disposal methods	: In acc	cordance with local and national re	egulations.
14. TRANSPORT INFORMATION			
ADR			
UN/ID No.	: UN 16		
		11/15	

SAFETY DATA SHEET		Honeywell Riedel-de Haën™
Acetonitrile		
34481-6X1L Version 1.6 Issuing date 12/14	1/2016 Revision Date 05/06/2024	Print Date 05/08/2024
Description of the goods	: ACETONITRILE	
Class	: 3	
Packing group Classification Code	: II : F1	
Hazard Identification Number	: 33	
Labels	: 3	
IATA		
UN/ID No. Description of the goods	: UN 1648 : Acetonitrile	
Class	: 3	
Packing group	:	
Labels Packing instruction (cargo	: 3 : 364	
aircraft)		
Packing instruction (passenger aircraft)	: 353	
Packing instruction (passenger aircraft)	: Y341	
IMDG		
UN/ID No.	: UN 1648	
Description of the goods Class	: ACETONITRILE : 3	
Packing group	: 11	
Labels EmS Number 1	: 3 : F-E	
EmS Number 2	: F-E : S-D	
Marine pollutant	: no	
5. REGULATORY INFORMATION		
National regulatory informati Chemical Substance	on Listed	
Control Law	Type II Monitoring Chemical Substance	
DES (JP)	Reference: (2)-1508	
Substances Subject to be : Notified Names JP MSDSD	Threshold Concentration: 1 % wt 15	
	10/15	
	12/15	

AFETY DATA SHEET		Honeywell Riedel-de Haën
etonitrile 481-6X1L ersion 1.6 Issuing date 12/	14/2016 Revision Date 05/06/2024	Print Date 05/08/202
	14/2010 Revision Date 05/00/2024	Fint Date 03/06/202
Vessel Safety Law JP VSL	: Flammable liquids (Article 2 and 3 of ru	
Aviation Law	 storage of dangerous goods and its Att Flammable liquid (Article 194 of The Et 	
JP AVL	Aviation Law and its Attached Table 1)	
Fire Service Law	: Group 4 Flammable liquids Type 1 petroleums Hazardous rank II Water soluble Keep away from fire	
Poisonous and Deleterious Substances Control Law	: Deleterious substance not for pharma 32.3 Acetonitrile 75-05-8	aceutical use
Other international regulation	ns	
Notification status USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended	: All substances listed as active on the	TSCA inventory
Australian Inventory of Industrial Chemicals	: All components are listed on the inversion obligations/restrictions apply	ntory, 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 wi	th the inventory
Korea. Existing Chemicals	: On the inventory, or in compliance wi 13/15	th the inventory

SAFETY DATA SHEET



Acetonitrile 34481-6X1L

Version 1.6

Issuing date 12/14/2016

Revision Date 05/06/2024

Print Date 05/08/2024

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

34481-6X1L

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