

Acetonitrile

34955-1L

Version 1.4

Issuing date 12/14/2016

Revision Date 11/03/2017

Print Date 08/06/2019

1. IDENTIFICATION OF THE SUBSTANCE/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
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: +(81)-345209637 (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the substance or mixture	 Flammable liquids, Category 2 Acute toxicity, Category 4, Inhalation Acute toxicity, Category 4, Oral Eye irritation, Category 2A Specific target organ toxicity - single exposure, Category 1, Central nervous system
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GHS Label elements, including precautionary statements

Symbol(s)



Signal word

: Danger

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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 state	Keep smol Keep Grou Use Use Take Do n Was Do n Use Wea	vention: b away from heat/sparks/open flam king. b container tightly closed. und/bond container and receiving e explosion-proof electrical/ventilati only non-sparking tools. e precautionary measures against ot breathe dust/ fume/ gas/ mist/ v h skin thoroughly after handling. not eat, drink or smoke when using only outdoors or in a well-ventilate in protective gloves/ protective cloth ection.	equipment. ng/ lighting/ equipment. static discharge. yapours/ spray. this product. ed area.
	IF S phys IF O conta IF IN posit IF IN Rem rinsir IF ex If eye In ca	WALLOWED: Call a POISON CEN sician if you feel unwell. Rinse mou 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 wate tove contact lenses, if present and ng. (posed: Call a POISON CENTER of e irritation persists: Get medical ac ase of fire: Use dry sand, dry chem in for extinction.	th. ff immediately all water/ shower. ir and keep at rest in a er for several minutes. easy to do. Continue or doctor/ physician. dvice/ attention.
		age: e in a well-ventilated place. Keep o e locked up.	cool.
	-	oosal: ose of contents/ container to an ap t.	oproved waste disposal
COMPOSITION/INFC	RMATION ON INGF	REDIENTS	
Formula	: C2H3		



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Chemical nature	: Subs	tance		
Chemical name		CAS-I	No.	Concentration
Acetonitrile Acetonitrile		75-05	5-8	100.00 %
IRST AID MEASURES				
Inhalation	If not If bre Use o prese	bye to fresh air. breathing, give artificial i athing is difficult, give ox bygen as required, provi ent. a physician.	ygen.	ied operator is
Skin contact	minut Take Wash	n off immediately with ple tes. off contaminated clothing n contaminated clothing b a physician.	g and shoes	immediately.
Eye contact	for at	e immediately with plenty least 15 minutes. a physician.	of water, al	so under the eyelids,
Ingestion	Do no Imme	a physician. ot induce vomiting withou ediate medical attention is r give anything by mouth	s required.	
Notes to physician	Symp	as cyanide poisoning. otoms of poisoning may r under medical supervisi		
IREFIGHTING MEASURES				
Suitable extinguishing media	Dry c Alcoh	on dioxide (CO2) hemical iol-resistant foam closed containers expose	ed to fire wit	h water spray.
Unsuitable extinguishing media	: Do no fire.	ot use a solid water strea	m as it may	scatter and spread
Specific hazards during firefighting	Vapo	mable. urs may form explosive r urs are heavier than air a 3/12		

SAFETY DA	ATA SHEET			Riedel-de Haën
Acetonitrile	9			
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		ignitin In cas produ Hydro Carbo	s may travel to areas away from g/flashing back to vapor source. e of fire hazardous decompositio ced such as: gen cyanide (hydrocyanic acid) on dioxide (CO2), carbon monoxic en (NOx), dense black smoke.	n products may be
Special prot for firefighte		: Wear	self-contained breathing apparate	us and protective suit.
6. ACCIDENTA	L RELEASE MEAS	URES		
	ecautions, equipment and procedures	Imme Keep Ensur Remo Do no Avoid	personal protective equipment. diately evacuate personnel to saf people away from and upwind of e adequate ventilation. ve all sources of ignition. t swallow. breathing vapours, mist or gas. contact with skin, eyes and cloth	spill/leak.
Environmer	ntal precautions	Preve Discha Do no	nt further leakage or spillage if sa nt product from entering drains. arge into the environment must b t flush into surface water or sanita t allow run-off from fire fighting to es.	e avoided. ary sewer system.
	nd materials for t and cleaning up	No sp Use e Conta mater and tr	ate the area. arking tools should be used. xplosion-proof equipment. in spillage, soak up with non-com ial, (e.g. sand, earth, diatomaceo ansfer to a container for disposal al regulations (see section 13).	us earth, vermiculite)
7. HANDLING A	ND STORAGE			
Handling				
Precautions	s for safe handling	Use o Keep Do no Do no 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.
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Advice on pr fire and expl	otection against osion	Take p Ensure transfe Use ex Keep p ignition No spa	away from fire, sparks and heated precautionary measures against s e all equipment is electrically grou er operations. xplosion-proof equipment. product and empty container away n. arking tools should be used. hoking.	tatic discharges. Inded before beginning
Storage				
Conditions fo including any incompatibili		Protec Keep of Conta kept u Keep a Store Conta Do no	in area designed for storage of fla ct from physical damage. containers tightly closed in a dry, ated place. iners which are opened must be of pright to prevent leakage. away from heat and sources of ign away from direct sunlight. away from incompatible substanc iner hazardous when empty. t pressurize, cut, weld, braze, solo e containers to heat or sources of	cool and well- carefully resealed and nition. es. der, drill, grind or
	ONTROLS/PERSO	control p		
•		•	I I	
Contains no	engineering con	rols		
Contains no Appropriate Use with loca	e engineering cont al exhaust ventilatio our buildup by prov	on.	quate ventilation during and after	use.
Contains no Appropriate Use with loca Prevent vapo	al exhaust ventilatio our buildup by prov	on. iding ade	quate ventilation during and after as personal protective equipme	
Contains no Appropriate Use with loca Prevent vapo	al exhaust ventilation our buildup by proverotection measure	on. iding ade es, such a	as personal protective equipme e of insufficient ventilation, wear s	ent
Contains no Appropriate Use with loca Prevent vapo Individual p	al exhaust ventilatio our buildup by prov protection measure protection	on. iding ade es, such : In cas equipr : Solver Gloves	as personal protective equipme e of insufficient ventilation, wear s	ent



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		ashes are likely to occur, wear: gles or face shield, giving complete	e protection to eyes
Skin and body protection	Solve Flam If spla	r as appropriate: ent-resistant apron le retardant antistatic protective clo ashes are likely to occur, wear: ective suit	othing.
Hygiene measures	Wash produ Keep Remu Do nu Avoid	n using do not eat, drink or smoke h hands before breaks and immed uct. o working clothes separately. ove and wash contaminated clothi ot swallow. d breathing vapours, mist or gas. d contact with skin, eyes and cloth	liately after handling the
Protective measures	the w Lega	rre that eyewash stations and safe vorkstation location. Il requirements are to be considere ction, use and care of personal pre	ed in regard of the
HYSICAL AND CHEMICAL	PROPERTI	ES	
Physical state	: liquic	ł	
Physical state Colour	: liquic : colou		
-	: colou		
Colour	: colou : chara	urless	
Colour Odour	: colou : chara	urless acteristic : Not applicable	
Colour Odour pH	: colou : chara : Note : -46 °	urless acteristic : Not applicable	
Colour Odour pH Melting point/range	: colou : chara : Note : -46 °	urless acteristic : Not applicable °C C at 1,013 hPa	
Colour Odour pH Melting point/range Boiling point/boiling range	: colou : chara : Note : -46 ° : 82 °(urless acteristic °C C at 1,013 hPa F (6 °C)	
Colour Odour pH Melting point/range Boiling point/boiling range Flash point	: colou : chara : Note : -46 ° : 82 ° : 43 °	urless acteristic °C C at 1,013 hPa F (6 °C) (V)	



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Vapour pressure	147 ł	°C(68 °F)	
Vapour density	: 1.42	(Air = 1.0)	
Density	: 0.785	57 g/cm3 at 20 °C	
Water solubility	: Note:	completely miscible	
Partition coefficient: n- octanol/water	: log Po	ow: -0.34	
Ignition temperature	: 524 °	C	
Molecular weight	: 41.05	g/mol	
STABILITY AND REACT	Ίνιτγ		
Chemical stability	: Stable	e under normal conditions.	
Possibility of hazardous reactions	: Hazaı	rdous polymerization does not oc	cur.
Conditions to avoid		flames and sparks. away from direct sunlight.	
Incompatible materials to avoid	Bases Oxidiz Redu Sulfite	s zing agents cing agents	
		attack many plastics, rubbers and	coatings.
	May a Oxidiz		coatings.

SAFETY DATA SHEET Honeywe Riedel-de Haën™ Acetonitrile 34955-1L Version 1.4 Issuing date 12/14/2016 Revision Date 11/03/2017 Print Date 08/06/2019 produced such as: products Hydrogen cyanide (hydrocyanic acid) Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. **11. TOXICOLOGICAL INFORMATION** : LD50: 617 mg/kg Acute oral toxicity 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 irritation Acetonitrile : Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404 Exposure time: 4 h Eye irritation : Species: Rabbit Result: Irritating to eyes. Sensitisation Acetonitrile : Buehler Test Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. Method: OECD Further information 8/12



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Acetonitrile	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.	as specific target organ
12. ECOLOGICAL INFORMATION		
Toxicity		
Toxicity to fish	flow-through test LC50: 1,640 mg/l Exposure time: 96 h Species: Pimephales promelas (fathea	d minnow)
Toxicity to algae Acetonitrile	static test NOEC: 400 mg/l Exposure time: 72 h Species: Phaeodactylum tricornutum static test ErC50: 9,696 mg/l Exposure time: 72 h Species: Phaeodactylum tricornutum	
Persistence and degradability		
Bioaccumulative potential		
Bioaccumulation	Note: no data available	
13. DISPOSAL CONSIDERATIONS		
WDPCL Waste Disposal and Public Cleansing Law	Specially Controlled Industrial Waste	
Disposal methods	In accordance with local and national re	egulations.
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14. TRANSPORT INFORMATION

ADR

UN/ID No. Description of the goods Class Packing group Classification Code Hazard Identification Number Labels	:	UN 1648 ACETONITRILE 3 II F1 33 3
IATA UN/ID No. Description of the goods Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)		UN 1648 Acetonitrile 3 II 3 364 353 Y341
IMDG UN/ID No. Description of the goods Class Packing group Labels EmS Number 1 EmS Number 2		UN 1648 ACETONITRILE 3 II 3 F-E S-D
Marine pollutant	:	no

15. REGULATORY INFORMATION

National regulatory inform Chemical Substance Control Law DES (JP)	ation : Listed Type II Monitoring Chemical Substance. Reference: (2)-1508
Substances Subject to be Notified Names JP MSDSD	: Threshold Concentration: 1 % wt 15
Vessel Safety Law	: Flammable liquids (Article 2 and 3 of rules on shipping and $10\!/\!12$



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JP VSL		storage	e of dangerous goods and its Attac	ched Table 1)
Aviation Lav JP AVL	W		nable liquid (Article 194 of The Enfo on Law and its Attached Table 1)	orcement Rules of
Fire Service	e Law	Type Haza Wate	p 4 Flammable liquids 1 petroleums ardous rank II er soluble 9 away from fire	
	and Deleterious Control Law	32.3	terious substance not for pharmac onitrile 75-05-8	eutical use
Other intern Notification US. Toxic S Control Act	Substances		SCA Inventory	
Notification US. Toxic S Control Act	n status Substances ndustrial Chemical	: On T	SCA Inventory	the inventory
Notification US. Toxic S Control Act Australia. In (Notification Assessmen Canada. Ca	n status Substances ndustrial Chemical n and t) Act anadian ntal Protection Act omestic	: On Ta		
Notification US. Toxic S Control Act Australia. In (Notification Assessmen Canada. Ca Environmen (CEPA). Do Substances	n status Substances ndustrial Chemical n and t) Act anadian ntal Protection Act omestic	: On T : On th : All co	ne inventory, or in compliance with	he Canadian DSL
Notification US. Toxic S Control Act Australia. In (Notification Assessmen Canada. Ca Environmer (CEPA). Do Substances Japan. Kasl	n status Substances adustrial Chemical and t) Act anadian atal Protection Act omestic s List (DSL) hin-Hou Law List ting Chemicals	: On T : On th : All co	ne inventory, or in compliance with omponents of this product are on t	he Canadian DSL
Notification US. Toxic S Control Act Australia. In (Notification Assessmen Canada. Ca Environmen (CEPA). Do Substances Japan. Kasl Korea. Exis Inventory (M Philippines. Substances	n status Substances adustrial Chemical and t) Act anadian ntal Protection Act omestic s List (DSL) hin-Hou Law List ting Chemicals (ECI)	: On T : On th : All cc : On th : On th	ne inventory, or in compliance with omponents of this product are on the inventory, or in compliance with	he Canadian DSL the inventory the inventory



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: On the inventory, or in compliance with the inventory

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New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

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.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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