

### Acetonitrile

#### 34967-1L

Version 1.4

Issuing date 12/14/2016

Revision Date 11/03/2017

Print Date 06/28/2019

#### 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	<ul> <li>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     </li> </ul>
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#### GHS Label elements, including precautionary statements

Symbol(s)



Signal word

: Danger

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Hazard stat	ements	Harm Caus Harm	y flammable liquid and vapour. Iful if swallowed. ses serious eye irritation. Iful if inhaled. ses damage to organs.	
Precautiona	ary statements	Keep smok Keep Grou Use o Take Do no Use o Wash	ention: a way from heat/sparks/open flam sing. container tightly closed. nd/bond container and receiving e explosion-proof electrical/ventilati only non-sparking tools. precautionary measures against ot breathe dust/ fume/ gas/ mist/v n skin thoroughly after handling. ot eat, drink or smoke when using only outdoors or in a well-ventilater r protective gloves/ protective cloth ction.	equipment. ng/ lighting/ equipment. static discharge. yapours/ spray. this product. ed area.
		IF SV physi IF ON conta IF IN positi IF IN Remo rinsin IF ex If eye In cas	VALLOWED: Call a POISON CEN ician if you feel unwell. Rinse mou 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 wate ove contact lenses, if present and ng. posed: Call a POISON CENTER of a irritation persists: Get medical ac se of fire: Use dry sand, dry chem 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.
		<b>Disp</b> o Dispo plant.	ose of contents/ container to an ap	oproved waste disposal
COMPOSITIC	N/INFORMATION	N ON INGR	EDIENTS	
Formula		: C2H3	N	



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Chemical nature	: Subst	ance		
Chemical name		CAS	S-No.	Concentration
Acetonitrile Acetonitrile		75-0	05-8	100.00 %
IRST AID MEASURES				
Inhalation	lf not If brea Use o prese	ove to fresh air. breathing, give artificia athing is difficult, give o xygen as required, pro nt. physician.	xygen.	
Skin contact	minut Take Wash	off immediately with ples. off contaminated clothi contaminated clothing physician.	ng and sho	es immediately.
Eye contact	for at	immediately with plent least 15 minutes. physician.	ty of water,	also under the eyelids,
Ingestion	Do no Imme	physician. tinduce vomiting withor diate medical attention give anything by mout	is required	
Notes to physician	Symp	as cyanide poisoning. toms of poisoning may under medical supervis		
IREFIGHTING MEASURES				
Suitable extinguishing media	Dry cl Alcoh	on dioxide (CO2) nemical ol-resistant foam closed containers expo	sed to fire v	with water spray.
Unsuitable extinguishing media	: Do no fire.	t use a solid water stre	am as it ma	ay scatter and spread
Specific hazards during firefighting		nable. urs may form explosive urs are heavier than air 3/12		

SAFETY DA	TA SHEET		H	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 decomposition ced such as: gen cyanide (hydrocyanic acid) n 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. ACCIDENTAL	RELEASE MEASU	JRES		
Personal pr protective e emergency	quipment and	Imme Keep Ensur Remo Do no Avoid	personal protective equipment. diately evacuate personnel to safe 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 clothi	spill/leak.
Environmer	tal precautions	Preve Discha Do no	nt further leakage or spillage if sa nt product from entering drains. arge into the environment must be t flush into surface water or sanita t allow run-off from fire fighting to es.	e avoided. ary sewer system.
	d materials for t and cleaning up	No sp Use e Conta mater and tra	ate the area. arking tools should be used. xplosion-proof equipment. in spillage, soak up with non-com ial, (e.g. sand, earth, diatomaceou ansfer to a container for disposal al regulations (see section 13).	us earth, vermiculite)
. HANDLING A	ND STORAGE			
Handling				
Precautions	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 clothi	ing.
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Advice on protect fire and explosion	n Take Ensu trans Use Kee ignit No s	p away from fire, sparks and heated e precautionary measures against s ure all equipment is electrically grou sfer operations. explosion-proof equipment. p product and empty container awa ion. sparking tools should be used. smoking.	static discharges. unded before beginning
Storage			
Conditions for sa including any incompatibilities	Prot Kee vent Con kept Kee Kee Stor Con	e in area designed for storage of fla ect from physical damage. p containers tightly closed in a dry, tilated place. tainers which are opened must be of upright to prevent leakage. p away from heat and sources of ig p away from direct sunlight. e away from incompatible substance tainer hazardous when empty. not pressurize, cut, weld, braze, sol ose containers to heat or sources of	cool and well- carefully resealed and nition. ces. der, drill, grind or
Components with	ROLS/PERSONAL P	l parameters	
		onal exposure limit values.	
	ineering controls		
Appropriate eng	haust ventilation.		
Use with local ex		dequate ventilation during and after	use.
Use with local ex Prevent vapour b	ouildup by providing ac	dequate ventilation during and after h as personal protective equipme	
Use with local ex Prevent vapour b	ouildup by providing ac ction measures, suc ection : In ca		ent
Use with local ex Prevent vapour b	ouildup by providing ac ction measures, suc ection : In ca equi : Solv Glov	h as personal protective equipments	ent
Use with local ex Prevent vapour b Individual prote Respiratory prote	ouildup by providing ac ction measures, suc ection : In ca equi : Solv Glov Repl : Do r Wea	h as personal protective equipme ase of insufficient ventilation, wear s pment. rent-resistant gloves ves must be inspected prior to use.	ent



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		ashes are likely to occur, wear: les or face shield, giving complete	e protection to eyes
Skin and body protection	Solve Flame If spla	as appropriate: ent-resistant apron e retardant antistatic protective clo ashes are likely to occur, wear: ctive suit	othing.
Hygiene measures	Wash produ Keep Remo Do no Avoid	n using do not eat, drink or smoke hands before breaks and immed lot. working clothes separately. bye and wash contaminated clothi bt swallow. I breathing vapours, mist or gas. I contact with skin, eyes and clothi	iately after handling the ng before re-use.
Protective measures	the w Legal	re that eyewash stations and safe orkstation location. requirements are to be considere tion, use and care of personal pro	ed in regard of the
HYSICAL AND CHEMICAL	PROPERTI	ES	
Physical state	: liquid		
Physical state Colour	: liquid : colou		
-	: colou		
Colour	: colou : chara	rless	
Colour Odour	: colou : chara	rless cteristic Not applicable	
Colour Odour pH	: colou : chara : Note: : -46 °	rless cteristic Not applicable	
Colour Odour pH Melting point/range	: colou : chara : Note: : -46 °	rless octeristic Not applicable C C at 1,013 hPa	
Colour Odour pH Melting point/range Boiling point/boiling range	: colou : chara : Note: : -46 ° : 82 °C	rless acteristic Not applicable C C at 1,013 hPa = (6 °C)	
Colour Odour pH Melting point/range Boiling point/boiling range Flash point	: colou : chara : Note: : -46 ° : 82 °C : 43 °F	rless Icteristic Not applicable C C at 1,013 hPa = (6 °C) V)	



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Vapour pressure	147 h	°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 REAC	TIVITY		
Chemical stability	: Stable	e under normal conditions.	
Possibility of hazardous reactions Conditions to avoid	: Heat,	rdous polymerization does not oc flames and sparks. away from direct sunlight.	cur.
Incompatible materials t avoid	to : Acids Bases Oxidiz Reduc Sulfite	s zing agents cing agents	
		attack many plastics, rubbers and	coatings.
	May a Oxidiz		coatings.

## SAFETY DATA SHEET Honeywe Riedel-de Haën™ Acetonitrile 34967-1L Version 1.4 Issuing date 12/14/2016 Revision Date 11/03/2017 Print Date 06/28/2019 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 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	ad 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 r	regulations.
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#### 14. TRANSPORT INFORMATION

#### ADR

Class Packing gr Classificati		:	UN 1648 ACETONITRILE 3 II F1 33 3
Class Packing gr Labels	struction (cargo struction r aircraft) struction	:	UN 1648 Acetonitrile 3 II 3 364 353 Y341
IMDG UN/ID No. Description Class Packing gr Labels EmS Numl EmS Numl	ber 1	:	UN 1648 ACETONITRILE 3 II 3 F-E S-D
Marine pol	lutant	:	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		storag	ge of dangerous goods and its Attach	ned Table 1)
Aviation Lav JP AVL	N		mable liquid (Article 194 of The Enfo on Law and its Attached Table 1)	rcement Rules of
Fire Service	e Law	Type Haza Wate	up 4 Flammable liquids e 1 petroleums ardous rank II er soluble p away from fire	
	and Deleterious Control Law	32.3	eterious substance not for pharmace tonitrile 75-05-8	utical use
Other intern Notificatior US. Toxic S Control Act			TSCA Inventory	
Australia. In (Notification Assessmen	and	: On t	the inventory, or in compliance with t	the inventory
Canada. Ca Environmen (CEPA). Do Substances	tal Protection Act mestic	: All c	components of this product are on the	e Canadian DSL
Japan. Kasl	nin-Hou Law List	: On t	the inventory, or in compliance with t	the inventory
·	ting Chemicals		the inventory, or in compliance with t the inventory, or in compliance with t	
Korea. Exist Inventory (K Philippines. Substances	ting Chemicals (ECI)	: On t		the inventory



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Zealand

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 New Zealand. Inventory of
 :
 On the inventory, or in compliance with the inventory

# 16. OTHER INFORMATION

Chemicals (NZIoC), as published by ERMA New

	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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