SAFETY DATA SHEET	I	Honeywell
Acetone		
179973-4L		
Version 1.4 Issuing date 12	/07/2016 Revision Date 10/28/2022	Print Date 06/01/2023
1. IDENTIFICATION OF THE SU	BSTANCE/MIXTURE AND OF THE COM	PANY/UNDERTAKING
Product information		
Trade name	: Acetone	
Number	: 00000020241	
Recommended use of the chemical and restrictions on use	: Laboratory chemicals	
Manufacturer or supplier's details	: Honeywell Specialty Chemicals Seelz GmbH Wunstorfer Straße 40 Seelze, 30926 Germany	ze
For further information, please contact:	: 1-800-368-0050 +1-231-726-3171 (Manday Friday, 0:00am 5:00am)	
In case of emergency call	<ul> <li>(Monday-Friday, 9:00am-5:00pm)</li> <li>Medical: 1-800-498-5701 or +1-303-</li> <li>Transportation (CHEMTREC): 1-800 527-3887</li> <li>In Japan: +(81)-345209637</li> </ul>	
2. HAZARDS IDENTIFICATION		
Classification of the subst	ance or mixture	
Classification of the substance or mixture	: Flammable liquids, Category 2 Eye irritation, Category 2A Specific target organ toxicity - single	e exposure, Category 3
GHS Label elements, inclu	ding precautionary statements	
Symbol(s)		
Signal word	: Danger	
Hazard statements	: Highly flammable liquid and vapour. 1/13	

## Honeywell SAFETY DATA SHEET Acetone 179973-4L Version 1.4 Issuing date 12/07/2016 Revision Date 10/28/2022 Print Date 06/01/2023 Causes serious eye irritation. May cause drowsiness or dizziness. **Prevention:** Precautionary statements ٠ Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. **Response:** IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/ doctor if you feel unwell. If eye irritation persists: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Storage: Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Disposal: Dispose of contents/ container to an approved waste disposal

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: C3H6O

: Substance

plant.

Chemical nature

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Chemical name	CAS-No.	Concentration		
Acetone	67-64-1	100.00 %		
Acetone				
FIRST AID MEASURES				
General advice	: First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing imme	ediately.		
Inhalation	: Remove to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.			
Skin contact	: After contact with skin, wash immediately with plenty of water. Call a physician if irritation develops or persists.			
Eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Consult a physician.			
Ingestion	: When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.			
Notes to physician	: Treat symptomatically.			
FIREFIGHTING MEASURES				
Suitable extinguishing media	: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry powder			
Unsuitable extinguishing media	: Do not use a solid water stream as it m fire.	ay scatter and spread		
Specific hazards during firefighting	: Highly 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. 3/13	spread along floors.		

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Special prot for firefighte	ective equipment ers		an approved positive pressure se ratus in addition to standard fire fig	
Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.				
. ACCIDENTAL	. RELEASE MEAS	URES		
Personal pro protective e emergency	quipment and	Wear must Ensu	uate personnel to safe areas. personal protective equipment. I be kept away. re adequate ventilation. ove all sources of ignition.	Jnprotected persons
Environmer	tal precautions	: Do no	ot flush into surface water or sanita	ary sewer system.
	d materials for t and cleaning up	Do no Use e Conta mate and t	late the area. ot use sparking tools. explosion-proof equipment. ain spillage, soak up with non-com rial, (e.g. sand, earth, diatomaceor ransfer to a container for disposal nal regulations (see section 13).	us earth, vermiculite)
. HANDLING A	ND STORAGE			
Handling				
Precautions	for safe handling		personal protective equipment. The well-ventilated areas.	
Advice on p fire and exp	rotection against losion	ignitio No sr Take	product and empty container awa on. noking. precautionary measures against s urs may form explosive mixtures v	static discharges.
Storage				
Conditions f including an incompatibil		Prote	in area designed for storage of flact from physical damage. containers tightly closed in a dry, 4/13	

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ventilated place. Store in original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS- No.	Value	Control parameters	Update	Basis
Acetone Acetone	67-64-1	TL : Threshold limits	(500 ppm)	08 2006	ISHL:Industrial Safety and Health Law OEL
		TWA : Time weighted average	470 mg/m3 (200 ppm)	04 2007	Japan Society for Occupational Health:Japan Society for Occupational Health allowable concentration recommendatio n value

## Appropriate engineering controls

Use with local exhaust ventilation. Prevent vapour buildup by providing adequate ventilation during and after use.

#### Individual protection measures, such as personal protective equipment

Respiratory protection	<ul> <li>In the case of vapour formation use a respirator with an approved filter.</li> <li>Recommended Filter type:</li> <li>Organic gas and low boiling vapour type</li> </ul>
Hand protection	<ul> <li>Impervious butyl rubber gloves</li> <li>Gloves must be inspected prior to use.</li> <li>Replace when worn.</li> </ul>
Eye protection	: Safety glasses with side-shields
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Skin and body protection	: Protective suit			
Hygiene measures	<ul> <li>Take off all contaminated clothing imm Remove and wash contaminated clothing Wash hands before breaks and at the When using do not eat or drink.</li> </ul>	ng before re-use.		
Protective measures	<ul> <li>Ensure that eyewash stations and safe the workstation location.</li> <li>Legal requirements are to be considered selection, use and care of personal pro- Avoid breathing vapours, mist or gas.</li> </ul>	ed in regard of the		
PHYSICAL AND CHEMICAL I				
Physical state	: liquid			
Colour	: colourless			
Odour	: characteristic			
Odour Threshold	: Note: No data available			
рН	: Note: Not applicable			
Melting point/range	: -95 °C			
Boiling point/boiling range	: 55 - 57 °C at 1,013 hPa			
Flash point	: 1 °F (-17 °C) Method: closed cup			
Evaporation rate	: Note: No data available			
Lower explosion limit	: 2.2 %(V)			
Upper explosion limit	: 14.3 %(V)			
Vapour pressure	: ca. 240 hPa at 20 °C(68 °F)			
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		0 hPa 50 °C(122 °F)	
Vapour density	: Not	e: No data available	
Density	: 0.7	79 g/cm3 at 20 °C	
Water solubility	: Not	e: completely miscible	
Partition coefficier octanol/water	nt: n- : log	Pow: -0.24	
Ignition temperatu		5 °C thod: DIN 51794	
Auto-ignition temp	perature : Not	e: not auto-flammable	
Decomposition ter	Not	6 °C e: Decomposition temperature, At illed without decomposition.	normal pressure may be
Viscosity, dynami	c : 0.3	32 mPa.s at 20 °C	
Viscosity, kinemat	tic : Not	e: No data available	
Oxidizing propertie	es : The	e substance or mixture is not class	ified as oxidizing.
Molecular weight	: 58.0	08 g/mol	

# Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Heat
Incompatible materials to avoid	<ul> <li>Plastic materials can be attacked.</li> <li>Strong oxidizing agents</li> <li>Bases</li> <li>Strong acids</li> <li>7/13</li> </ul>

/07/2016 Alkali r Alkalin	Revision Date 10/28/2022 metals e earth metals	Print Date 06/01/2023
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Ovidia		
produc Carbor	ed such as: n monoxide, carbon dioxide and	
of : Inhalat	ion, Eye contact, Skin contact, Ir	ngestion
Exposi	ure time: 4 h	
Result	: slight irritation	
: Note: N	No data available	
Applica Exposi	ation Route: Oral ure time: 90 d	evel): 900 mg/kg
	<ul> <li>Oxidizion</li> <li>In case product Carbon hydrod</li> <li>TION</li> <li>Inhalat</li> <li>LD50: Specie</li> <li>LC50: Exposi Specie</li> <li>LD50: Specie</li> <li>LD50: Specie</li> <li>Specie</li> </ul>	<ul> <li>Inhalation, Eye contact, Skin contact, Ir</li> <li>LD50: 5,800 mg/kg Species: Rat</li> <li>LC50: 76 mg/l, vapour Exposure time: 4 h Species: Rat, female</li> <li>LD50: &gt; 7,400 mg/kg Species: Rat</li> <li>Species: Rabbit Result: slight irritation Method: Draize Test</li> <li>Species: Rabbit Result: Irritating to eyes.</li> <li>Species: Guinea pig Classification: non-sensitizing</li> <li>Note: No data available</li> <li>Species: Rat, male Application Route: Oral Exposure time: 90 d NOAEL (No observed adverse effect le</li> </ul>

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		Metho	od: OECD Test Guideline 408	
Germ cell	mutagenicity	: Note:	No data available	
Carcinoge	nicity	: Note:	No data available	
Reproducti	ve toxicity	: Note:	No data available	
Specific target organ toxicity : Assessment :The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.				
Specific ta - repeated	rget organ toxicity exposure	: Note :	No data available	
Aspiration	toxicity	: No dat	a available	
2. ECOLOGIC	AL INFORMATION	N		
Aquatic an	d ecotoxicity			
Toxicity to	fish	Expos	6,210 mg/l sure time: 96 h es: Pimephales promelas (fathea	ld minnow)
		Expos Specie	5,540 mg/l sure time: 96 h es: Oncorhynchus mykiss (rainbo od: OECD Test Guideline 203	ow trout)
Toxicity to aquatic inv	daphnia and other ertebrates	Expos	8,800 mg/l sure time: 48 h es: Daphnia pulex (Water flea)	
		: static		
Toxicity to	aigae		sure time: 8 d es: Microcystis aeruginosa (blue-	green algae)

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		sure time: 16 h es: Bacteria	
Persistence and degradab	ility		
Biodegradability		t: Readily biodegradable : 90 %	
Bioaccumulative potential			
Bioaccumulation		ncentration factor (BCF): 3 Bioaccumulation is unlikely.	
Mobility in soil			
Mobility	: Note:	No data available	
Biochemical Oxygen	: Value	: 1,760 mg/g	
Demand (BOD) Chemical Oxygen Demand (COD)	: Value	: 2,070 mg/g	
Adsorbed organic bound halogens (AOX)	: Note:	Product does not contain any org	janic halogens.
B. DISPOSAL CONSIDERATI	ONS		
WDPCL Waste Disposal ar Public Cleansing Law	nd : Specia	ally Controlled Industrial Waste	
Disposal methods	: In acc	ordance with local and national re	egulations.
I. TRANSPORT INFORMATIO	ON		
<b>ADR</b> UN/ID No. Description of the goods	: UN 10 : ACET		
Class	: 3	10/13	
Class	: 3	10/13	

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Packing group Classification Code Hazard Identification Number Labels	: II : F1 : 33 : 3
IATA UN/ID No. Description of the goods Class Packing group Labels Packing instruction (cargo aircraft)	: UN 1090 : Acetone : 3 : II : 3 : 364
Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: 353 : Y341
IMDG UN/ID No. Description of the goods Class Packing group Labels EmS Number 1 EmS Number 2	: UN 1090 : ACETONE : 3 : II : 3 : F-E : S-D
Marine pollutant	: no

#### **15. REGULATORY INFORMATION**

## National regulatory information

Substances Subject to be Notified Names JP MSDSD	:	Threshold Concentration: 0.1 % wt 17
Substances Subject to be Indicated Names JPISHL LR	:	Article 18 Threshold limits: 1 % wt 1.3
Vessel Safety Law JP VSL	:	Flammable liquids (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)
Aviation Law	:	Flammable liquid (Article 194 of The Enforcement Rules of $11/13$

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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	: Not relevant		
Other international regulation	s		
Notification status US. Toxic Substances Control Act	: On TSCA Inventory		
Australia. Inventory of Industrial Chemicals (AIIC), as amended	: On the inventory, or in compliance	with the inventory	
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	: 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 Inventory (KECI)	: On the inventory, or in compliance	with the inventory	
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	
New Zealand. Inventory of Chemicals (NZIoC), as	: On the inventory, or in compliance	with the inventory	
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Taiwan Chemical Substance : On the inventory, or in compliance with the inventory Inventory (TCSI)

**16. OTHER INFORMATION** 

	HMIS III	NFPA
Health hazard	: 2*	1
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. Previous Issue Date: 11/03/2017 Revision Date: 10/28/2022 Version 1.4 Issuing date 12/07/2016 Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group