SAFETY DATA SHEET		Honeywell
Acetone		
179973-1L		
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	 (Monday-Friday, 9:00am-5:00pm) 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 	
2. HAZARDS IDENTIFICATION		
Classification of the substa	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 179973-1L 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 plant. **3. COMPOSITION/INFORMATION ON INGREDIENTS** : C3H6O Formula Chemical nature : Substance 2/13

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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 immediate Call a physician if irritation develops or			
Eye contact	: Rinse thoroughly with plenty of water, a Protect unharmed eye. Consult a physician.	Iso under the eyelids.		
Ingestion	: When swallowed, allow water to be dru Do NOT induce vomiting. Call a physician immediately.	nk.		
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 we Vapours are heavier than air and may se Vapors may travel to areas away from we igniting/flashing back to vapor source. 3/13	spread along floors.		

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Special pro	tective equipment ers		an approved positive pressure se ratus in addition to standard fire fig	
Further info	rmation		extinguishing measures that are apmstances and the surrounding env	
. ACCIDENTAI	L RELEASE MEAS	URES		
Personal pr protective e emergency	equipment 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	ntal 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 mater and tr	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	s for safe handling		personal protective equipment. only in well-ventilated areas.	
Advice on p fire and exp	protection against plosion	ignitic No sr Take	product and empty container awa on. noking. precautionary measures against s urs may form explosive mixtures v	static discharges.
Storage				
Conditions including ar incompatibi		Prote	in area designed for storage of fla ct 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	 In the case of vapour formation use a respirator with an approved filter. Recommended Filter type: Organic gas and low boiling vapour type
Hand protection	: Impervious butyl rubber gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Safety glasses with side-shields
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Skin and body protection	: Protect	ive suit		
Hygiene measures	Remov Wash h	f all contaminated clothing imme e and wash contaminated clothi ands before breaks and at the e ising do not eat or drink.	ng before re-use.	
Protective measures	the wor Legal re selectio	 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. Avoid breathing vapours, mist or gas. 		
PHYSICAL AND CHEMICAL F	PROPERTIES	3		
Physical state	: liquid			
Colour	: colourle	ess		
Odour	: charact	eristic		
Odour Threshold	: Note: N	lo data available		
рН	: Note: N	ot applicable		
Melting point/range	: -95 °C			
Boiling point/boiling range	: 55 - 57	′ ℃ at 1,013 hPa		
Flash point	: 1 °F (- Method	17 °C) : closed cup		
Evaporation rate	: Note: N	lo data available		
Lower explosion limit	: 2.2 %(V)		
	: 14.3 %	.(V)		
Upper explosion limit				
Upper explosion limit Vapour pressure	: ca. 240 at 20 °C	hPa C(68 °F)		



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580 hPa
at 50 °C(122 °F)

: Note: No data available

Vapour density

Density : 0.79 g/cm3 at 20 °C

Water solubility : Note: completely miscible

Decomposition temperature

Ignition temperature

Partition coefficient: noctanol/water

: 465 °C

Method: DIN 51794

: log Pow: -0.24

Auto-ignition temperature : Note: not auto-flammable

> : 236 °C Note: Decomposition temperature, At normal pressure may be

distilled without decomposition. Viscosity, dynamic : 0.32 mPa.s at 20 °C

: 58.08 g/mol

Viscosity, kinematic : Note: No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

10. STABILITY AND REACTIVITY

Molecular weight

Chemical stability : Stable under normal conditions. Possibility of hazardous : Hazardous polymerisation does not occur. reactions Conditions to avoid : Heat Incompatible materials to : Plastic materials can be attacked. avoid Strong oxidizing agents Bases Strong acids 7/13

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		Oxidiz	metals e earth metals ing solids ing liquids	
Hazardous decomposition : In case products produc Carbon		e of fire hazardous decompositio ed such as: n monoxide, carbon dioxide and arbons (smoke).		
11. TOXICOLOGIO	CAL INFORMA	ΓΙΟΝ		
	likely routes of	: Inhalat	ion, Eye contact, Skin contact, Ir	ngestion
exposure Acute oral toxi	city	: LD50: Specie	5,800 mg/kg s: Rat	
Acute inhalatio	on toxicity	Expos	76 mg/l , vapour ure time: 4 h es: Rat, female	
Acute dermal	toxicity	: LD50: Specie	> 7,400 mg/kg s: Rat	
Skin corrosion	/irritation	Result	es: Rabbit : slight irritation d: Draize Test	
Serious eye da irritation	amage/eye		es: Rabbit : Irritating to eyes.	
Skin sensitisat	ion		es: Guinea pig rication: non-sensitizing	
Respiratory se	ensitisation	: Note: I	No data available	
Repeated dos	e toxicity	Applica Expos	es: Rat, male ation Route: Oral ure time: 90 d L (No observed adverse effect le 8/13	evel): 900 mg/kg

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		Metho	d: OECD Test Guideline 408	
Germ cell r	nutagenicity	: Note:	No data available	
Carcinoger	nicity	: Note:	No data available	
Reproducti	ve toxicity	: Note:	No data available	
Specific tar - single exp	get organ toxicity posure	target	sment :The substance or mixture organ toxicant, single exposure, ic effects.	
Specific tar - repeated	get organ toxicity exposure	: Note :	No data available	
Aspiration	toxicity	: No data	a available	
2. ECOLOGIC	AL INFORMATION	1		
Aquatic and	d ecotoxicity			
Toxicity to	fish	Expos	6,210 mg/l ure time: 96 h es: Pimephales promelas (fathea	d minnow)
		Expos Specie	5,540 mg/l ure time: 96 h es: Oncorhynchus mykiss (rainbo d: OECD Test Guideline 203	ow trout)
Toxicity to aquatic inv	daphnia and other ertebrates	Expos	8,800 mg/l ure time: 48 h es: Daphnia pulex (Water flea)	
	algae	: static	: 530 mg/l	
Toxicity to		Expos	ure time: 8 d es: Microcystis aeruginosa (blue-	green algae)

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		osure time: 16 h cies: Bacteria	
	·		
Persistence and degradat	oility		
Biodegradability		ult: Readily biodegradable e: 90 %	
Bioaccumulative potentia	I		
Bioaccumulation		oncentration factor (BCF): 3 e: Bioaccumulation is unlikely.	
Mobility in soil			
Mobility	: Note	: No data available	
Biochemical Oxygen Demand (BOD)	: Valu	e: 1,760 mg/g	
Chemical Oxygen Demand (COD)	d : Valu	e: 2,070 mg/g	
Adsorbed organic bound halogens (AOX)	: Note	: Product does not contain any org	anic halogens.
3. DISPOSAL CONSIDERATI	ONS		
WDPCL Waste Disposal a Public Cleansing Law	nd : Spec	cially Controlled Industrial Waste	
Disposal methods	: In ac	ccordance with local and national re	egulations.
4. TRANSPORT INFORMATI	ON		
ADR			
UN/ID No. Description of the goods	: UN 1 : ACE		
Class	: 3		
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Packing group Classification Code Hazard Identification Numb Labels	: II : F1 per : 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	: 353 : Y341
(passenger aircraft) 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 regulatior			
Notification status US. Toxic Substances Control Act	: On TSCA Inventory		
Australia. Inventory of Industrial Chemicals (AIIC), as amended	: On the inventory, or in compliance wit	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	Il 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 wit	th 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