

Methylcyclohexane

259691-2L

Version 1.0

Issuing date 05/10/2017

Revision Date 05/10/2017

Print Date 08/06/2019

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Т	rade name	:	Methylcyclohexane
Ν	lumber	:	00000020873
С	Recommended use of the chemical and restrictions on use	:	Laboratory chemicals
	Aanufacturer or supplier's letails	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 Seelze, 30926
	For further information, lease contact:	:	1-800-368-0050 +1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)
h	n 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	: Flammable liquids, Category 2
substance or mixture	Skin irritation, Category 2
	Specific target organ toxicity - single exposure, Category 3
	Aspiration hazard, Category 1
	Acute aquatic toxicity, Category 1
	Chronic aquatic toxicity, Category 1

GHS Label elements, including precautionary statements

Symbol(s)



Signal word

: Danger



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Hazard statements	 Highly flammable liquid and vapor May be fatal if swallowed and enter Causes skin irritation. May cause drowsiness and dizzin Very toxic to aquatic life with long 	ers airways. ess.
Precautionary statements	 Prevention: Keep away from heat/sparks/oper smoking. Keep container tightly closed. Ground/bond container and receiv Use explosion-proof electrical/ver Use only non-sparking tools. Take precautionary measures aga Avoid breathing dust/ fume/ gas/ r Wash skin thoroughly after handlin Use only outdoors or in a well-ver Avoid release to the environment. Wear eye protection/ face protection Response: IF SWALLOWED: Immediately ca IF ON SKIN (or hair): Remove/ Ta contaminated clothing. Rinse skin IF INHALED: Remove victim to free position comfortable for breathing Call a POISON CENTER/doctor if Specific treatment (see supplement this label). Do NOT induce vomiting. If skin irritation occurs: Get medica Take off contaminated clothing and In case of fire: Use dry sand, dry of foam for extinction. Collect spillage. 	ving equipment. ntilating/ lighting/ equipment. ainst static discharge. mist/ vapours/ spray. ng. ntilated area. fon. III a POISON CENTER/doctor. ake off immediately all with water/ shower. esh air and keep at rest in a you feel unwell. ntal first aid instructions on al advice/ attention. d wash before reuse.
	Storage: Store in a well-ventilated place. Ke Store in a well-ventilated place. Ke Store locked up.	
	Disposal: Dispose of contents/ container to a plant.	an approved waste disposal
COMPOSITION/INFORMATIO	ON INGREDIENTS	
Formula	: C7H14	

SAFETY DATA SHEET Honeyw Riedel-de Haën™ Methylcyclohexane 259691-2L Version 1.0 Issuing date 05/10/2017 Revision Date 05/10/2017 Print Date 08/06/2019 Chemical nature : Substance Chemical name CAS-No. Concentration Methylcyclohexane 108-87-2 100.00 % Methylcyclohexane 4. FIRST AID MEASURES General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately. Inhalation : If breathed in, move person into fresh air. Call a physician immediately. Skin contact : After contact with skin, wash immediately with plenty of soap and water. If symptoms persist, call a physician. : Rinse thoroughly with plenty of water, also under the eyelids. Eye contact Protect unharmed eye. Remove contact lenses. Call a physician immediately. : Clean mouth with water and drink afterwards plenty of water. Ingestion Do NOT induce vomiting. Call a physician immediately. 5. FIREFIGHTING MEASURES Suitable extinguishing media : Water spray Foam Carbon dioxide (CO2) Dry powder Unsuitable extinguishing : Do not use a solid water stream as it may scatter and spread media fire.



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Special prote for firefighte	ective equipment 's		ar an approved positive pressure sel aratus in addition to standard fire fig			
Further information :			Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use a solid water stream as it may scatter and spread fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.			
ACCIDENTAL	RELEASE MEAS	URES				
Personal pre protective ec emergency	quipment and	Wea mus Ensu Rem Avoi	cuate personnel to safe areas. ar personal protective equipment. U t be kept away. ure adequate ventilation. hove all sources of ignition. d breathing vapours, mist or gas. d contact with skin, eyes and clothir			
Environmen	tal precautions		vent further leakage or spillage if saf not flush into surface water or sanita			
	d materials for and cleaning up	Do r Use Cont mate and	tilate the area. not use sparking tools. explosion-proof equipment. tain spillage, soak up with non-comb erial, (e.g. sand, earth, diatomaceou transfer to a container for disposal a onal regulations (see section 13).	s earth, vermiculite)		
HANDLING A	ND STORAGE					
Handling						
Precautions	for safe handling	Use Avoi	ar personal protective equipment. only in well-ventilated areas. Id breathing vapours, mist or gas. Id contact with skin, eyes and clothir	ng.		
Advice on pr fire and expl	otection against osion	ignit No s Take	p product and empty container away ion. smoking. e precautionary measures against st ours may form explosive mixtures w	atic discharges.		



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Storage

Conditions for safe storage,	: Store in area designed for storage of flammable liquids.
including any	Protect from physical damage.
incompatibilities	Store in original container.
-	Keep containers tightly closed in a dry, cool and well-
	ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS- No.	Value	Control parameters	Update	Basis
Methylcyclohe xane Methylcyclohe xane	108-87-2	TWA : Time weighted average	1,600 mg/m3 (400 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.

Individual protection measures, such as personal protective equipment

Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	: Impervious gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Safety glasses with side-shields
Skin and body protection	: Protective suit
Hygiene measures	: General industrial hygiene practice.
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
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Colour

Density

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selection, use and care of personal protective equipment. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
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Colodi	. colouriess
Odour	: characteristic
Melting point/range	: -126 °C

Boiling point/boiling range	: 100 - 102 °C at 1,013 hPa
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· colourlocc

Flash point	: 25 °F (-4 °C)
	Method: closed cup

Lower explosion limit	:	1.1 %(V)
Upper explosion limit	:	6.7 %(V)

Vapour pressure : 48 hPa at 20 °C(68 °F)

> 184 hPa at 50 °C(122 °F)

: ca. 0.769 g/cm3 at 20 °C

Water solubility : Note: insoluble

Partition coefficient: n- : log Pow: 3.88 octanol/water

Ignition temperature : 250 °C 6/12



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Decomposition temperature	: Not	e: No decomposition if used as dire	ected.	
Viscosity, dynamic	: 0.6	79 mPa.s at 20 °C		
Molecular weight	: 98.′	19 g/mol		
10. STABILITY AND REACTIVITY	ſ			
Chemical stability	: Sta	ble under normal conditions.		
Possibility of hazardous reactions	: Rea	acts with air to form peroxides.		
Conditions to avoid		tect from exposure to air/oxygen (p p away from heat and sources of i		
Incompatible materials to avoid	: Oxi	dizing agents		
Hazardous decomposition products	: Car	bon oxides		
11. TOXICOLOGICAL INFORMAT	ΓΙΟΝ			
Acute oral toxicity		e: Not classified due to data which ifficient for classification.	are conclusive although	
Acute inhalation toxicity		e: Not classified due to data which ifficient for classification.	are conclusive although	
Acute dermal toxicity	Spe	50: >2,000 mg/kg ecies: Rabbit hod: OECD Test Guideline 402		
Skin irritation		e: Classification based on Annex \ 2/2008/EC.	/I of regulation	
Eye irritation	Res	ecies: Rabbit sult: non-irritant hod: OECD Test Guideline 405		
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Sensitisation	Result	er Test es: Guinea pig t: non-sensitizing rd: OECD Test Guideline 406	
Genotoxicity in vitro		Not classified due to data which a cient for classification.	are conclusive although
Aspiration toxicity	: May be	e fatal if swallowed and enters air	ways.
ECOLOGICAL INFORMATIC	N		
Toxicity to fish	2.07 m Expos Specie	static test ng/l sure time: 96 h es: Orycias Latipes rd: OECD Test Guideline 203	
Toxicity to daphnia and othe aquatic invertebrates	EC50: Expos Specie	static test 0.326 mg/l sure time: 48 h es: Daphnia magna (Water flea) d: OECD Test Guideline 202	
Toxicity to algae	Expos Specie	test 0.134 mg/l sure time: 72 h es: Pseudokirchneriella subcapita d: OECD Test Guideline 201	ta (green algae)
	Expos Specie	test 2: 0.022 mg/l sure time: 72 h es: Pseudokirchneriella subcapita rd: OECD Test Guideline 201	ta (green algae)
Toxicity to bacteria	Expos	test 2: 2.725 mg/l sure time: 14 h es: activated sludge	



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	Μ	ethod: OECD Test Guideline 301D	
Persistence and	d degradability		
Biodegradabilit	Re	robic sult: Not rapidly biodegradable ethod: OECD Test Guideline 301D	
Other adverse	effects		
Additional ecolo information	Th	not flush into surface water or sanit e product should not be allowed to e urses or the soil.	
3. DISPOSAL COM	NSIDERATIONS		
WDPCL Waste Public Cleansin		ecially Controlled Industrial Waste	
Disposal metho	ods : In	accordance with local and national r	egulations.
4. TRANSPORT IN	FORMATION		
ADR UN/ID No. Description of t Class Packing group Classification C Hazard Identific Labels	he goods : MI : 3 : II		
IATA UN/ID No. Description of t Class Packing group Labels Packing instruc aircraft)	he goods : Me : 3 : II : 3	l 2296 ethylcyclohexane 4	
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Packing inst (passenger Packing inst (passenger	aircraft) ruction	: 353 : Y341		
IMDG UN/ID No. Description Class Packing gro Labels EmS Numbe EmS Numbe	er 1	: UN 2 : METH : 3 : II : 3 : F-E : S-D	296 HYLCYCLOHEXANE	
Marine pollu	itant	: yes		
National re	RY INFORMATIC gulatory informa ty Law	ation	able liquids (Article 2 and 3 of rule	es on shipping and
National re Vessel Safe JP VSL	gulatory informa ty Law	ation : Flamm storage	e of dangerous goods and its Atta	ched Table 1)
National reg Vessel Safe JP VSL Aviation Lav JP AVL Fire Service	gulatory informa ty Law v Law	ation : Flamm storage : Flamm Aviatio : Type 1	e of dangerous goods and its Attainable liquids (Article 194 of The Er n Law and its Attached Table 1) petroleums	ched Table 1)
National reg Vessel Safe JP VSL Aviation Lav JP AVL	gulatory informa ty Law Law	ation : Flamm storage : Flamm Aviatio : Type 1 Flamm II : Listed Type II	e of dangerous goods and its Attainable liquids (Article 194 of The Er n Law and its Attached Table 1)	ched Table 1)
National reg Vessel Safe JP VSL Aviation Law JP AVL Fire Service JP FSL DS4 Chemical St Control Law JP MON3	gulatory informa ty Law Law ubstance	ation : Flamm storage : Flamm Aviatio : Type 1 Flamm II : Listed Type II Refere :	e of dangerous goods and its Attainable liquids (Article 194 of The Er n Law and its Attached Table 1) petroleums able liquids	ched Table 1)



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Notification status US. Toxic Substances Control Act	: On TSCA Inventory
Australia. Industrial Chemical (Notification and Assessment) Act	: 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. Toxic Chemical Control Law (TCCL) List	: On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	: On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances	: On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2	1
Flammability	: 3	3
Physical Hazard	: 0	
Instability	:	0

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



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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.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group