

Methylcyclohexane

259691-1L

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

Trade name : Methylcyclohexane

Number : 000000020873

Recommended use of the

chemical and restrictions on use

ons on

Manufacturer or supplier's

details

Honeywell Specialty Chemicals Seelze

GmbH

Wunstorfer Straße 40 Seelze, 30926

Laboratory chemicals

For further information, : 1-800-368-0050 please contact: +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 : 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 vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness and dizziness.

Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

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.

Avoid release to the environment. Wear eye protection/ face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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.

Call a POISON CENTER/doctor if you feel unwell.

Specific treatment (see supplemental first aid instructions on

this label).

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant

foam for extinction. Collect spillage.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C7H14



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Chemical nature : Substance

Chemical nameCAS-No.ConcentrationMethylcyclohexane108-87-2100.00 %

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.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

Protect unharmed eye. Remove contact lenses. Call a physician immediately.

Ingestion : Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting. Call a physician immediately.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Foam

Carbon dioxide (CO2)

Dry powder

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

fire.

Specific hazards during

firefighting

: Flammable.

Vapours may form explosive mixtures with air.

Vapours are heavier than air and may spread along floors. Vapors may travel to areas away from work site before

igniting/flashing back to vapor source.

Fire may cause evolution of:

Carbon oxides



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Special protective equipment

for firefighters

: Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Evacuate personnel to safe areas.

Wear personal protective equipment. Unprotected persons

must be kept away.

Ensure adequate ventilation.
Remove all sources of ignition.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.

Environmental precautions :

: Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

: Ventilate the area.

Do not use sparking tools. Use explosion-proof equipment.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Wear personal protective equipment.

Use only in well-ventilated areas. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

: Keep product and empty container away from heat and sources of

ignition.

No smoking.

Take precautionary measures against static discharges.

Vapours may form explosive mixtures with air.



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Storage

Conditions for safe storage,

including any incompatibilities

: Store in area designed for storage of flammable liquids.

Protect from physical damage. 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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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

Colour : colourless

Odour : characteristic

: -126 °C Melting point/range

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

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)

Density : 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

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Decomposition temperature : Note: No decomposition if used as directed.

Viscosity, dynamic : 0.679 mPa.s at 20 °C

Molecular weight : 98.19 g/mol

10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Reacts with air to form peroxides.

Conditions to avoid : Protect from exposure to air/oxygen (peroxide formation).

Keep away from heat and sources of ignition.

Incompatible materials to

avoid

Hazardous decomposition

products

: Oxidizing agents

: Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: Not classified due to data which are conclusive although

insufficient for classification.

Acute inhalation toxicity : Note: Not classified due to data which are conclusive although

insufficient for classification.

Acute dermal toxicity : LD50: > 2,000 mg/kg

Species: Rabbit

Method: OECD Test Guideline 402

Skin irritation : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Eye irritation : Species: Rabbit

Result: non-irritant

Method: OECD Test Guideline 405



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Sensitisation : Buehler Test

Species: Guinea pig Result: non-sensitizing

Method: OECD Test Guideline 406

Genotoxicity in vitro Note: Not classified due to data which are conclusive although

insufficient for classification.

Aspiration toxicity : May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish : semi-static test

2.07 mg/l

Exposure time: 96 h Species: Orycias Latipes

Method: OECD Test Guideline 203

Toxicity to daphnia and other : semi-static test

aquatic invertebrates

EC50: 0.326 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Toxicity to algae : static test

> EC50: 0.134 mg/l Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

static test

NOEC: 0.022 mg/l Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Toxicity to bacteria : static test

NOEC: 2.725 mg/l Exposure time: 14 h Species: activated sludge

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Method: OECD Test Guideline 301D

Persistence and degradability

Biodegradability : aerobic

> Result: Not rapidly biodegradable Method: OECD Test Guideline 301D

Other adverse effects

Additional ecological

information

: Do not flush into surface water or sanitary sewer system. The product should not be allowed to enter drains, water

courses or the soil.

13. DISPOSAL CONSIDERATIONS

Public Cleansing Law

WDPCL Waste Disposal and : Specially Controlled Industrial Waste

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

UN/ID No. : UN 2296

Description of the goods : METHYLCYCLOHEXANE

Class : 3 Classification Code : 11 : F1 Hazard Identification Number : 33 Labels : 3

IATA

UN/ID No. : UN 2296

Description of the goods : Methylcyclohexane

Class : 3 : 11 Packing group 3 Labels Packing instruction (cargo : 364

aircraft)

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Packing instruction : 353

(passenger aircraft)

Packing instruction : Y341

(passenger aircraft)

IMDG

JP VSL

UN/ID No. : UN 2296

Description of the goods : METHYLCYCLOHEXANE

Class 3 Packing group : 11 Labels : 3 : F-E EmS Number 1 EmS Number 2 : S-D

Marine pollutant : yes

15. REGULATORY INFORMATION

National regulatory information

: Flammable liquids (Article 2 and 3 of rules on shipping and Vessel Safety Law

storage of dangerous goods and its Attached Table 1)

: Flammable liquids (Article 194 of The Enforcement Rules of Aviation Law

JP AVL Aviation Law and its Attached Table 1)

Fire Service Law : Type 1 petroleums

JP FSL DS4 Flammable liquids Ш

Chemical Substance : Listed

Control Law Type III Monitoring Chemical Substance.

JP MON3 Reference: (3)-2230

Substances Subject to be

Notified Names

JP MSDSD

Threshold Concentration: 1 % wt 576

Substances Subject to be

Indicated Names

JPISHL LR

: Article 18

Threshold limits: 1 % wt 576



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Other international regulations

Notification status

US. Toxic Substances

Control Act

: On TSCA Inventory

(Notification and Assessment) Act

Australia. Industrial Chemical : 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 : 3 Flammability 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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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