



Safety Data Sheet

Section 1: Identification

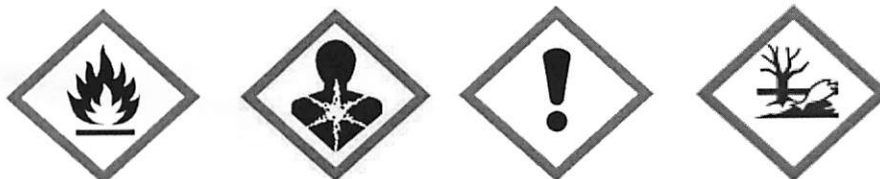
Product Name:	Methylcyclohexane		
Synonyms:	Hexahydrotoluene		
CAS No.:	108-87-2		
Chemical Formula:	C ₇ H ₁₄		
Company:	AllChem Industries ICG, Inc. 6010 NW First Place Gainesville, FL 32607 Tel: (352) 378-9696		Emergency Number: CHEMTREC: 800-424-9300
Recommended Uses:	Blowing agents	Distribution of substance	Laboratory activities
	Manufacture of substance	Uses in Coatings	Use as an intermediate
	Formulation & (re)packing of substances and mixtures		Other Consumer Uses
	Road and construction applications		Rubber production and processing

Section 2: Hazard(s) Identification

GHS Classification:	Category
Flammable liquids	2
Aspiration toxicity	1
Skin corrosion/irritation	2
Specific target organ toxicity- Single exposure	3
Chronic aquatic toxicity	2

GHS Label elements:

Pictograms:



Signal Word:

Danger

Hazard Statements:

Code	Description
H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

Code	Description
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P243	Take precautionary measures against static discharge
P403, P235	Store in a well-ventilated place. Keep cool
P280	Wear protective gloves and eye/face protection
P301, P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331	Do NOT induce vomiting
P273	Avoid release to the environment

Other classifications:**NFPA Rating:**

Health:	2
Fire:	3
Reactivity:	0

HMIS:

Health:	2
Flammability:	3
Physical:	0

Section 3: Composition, Information on Ingredients

Component	CAS No	Index No.	Concentration	EINECS No
Methylcyclohexane	108-87-2	601-018-00-7	100%	927-033-1

Section 4: First-aid measures

Inhalation:	In case of exposure to intense concentrations of vapors, fumes or spray, transport the person away from the contaminated zone, keep warm and allow to rest.
Ingestion:	Do NOT induce vomiting. ASPIRATION HAZARD! Get immediate medical attention
Skin Contact:	Wash off with soap and plenty of water, and remove contaminated clothing and shoes
Eye Contact:	Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
NOTE TO PHYSICIAN:	Treat symptomatically and supportively. Harmful: If swallowed the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours).

Section 5: Fire-fighting measures

Conditions of flammability:	Flammable in the presence of a source of ignition
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers. Do NOT use solid water stream, it may scatter and spread the fire.
Special protective equip.:	Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.
Hazardous combustion products:	Carbon oxides, various hydrocarbons, aldehydes and soot



Section 6: Accidental release measures

Personal precautions:	Wear personal protection equipment. Avoid breathing vapors, mist or gas.
Emergency procedures:	Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Vapors can accumulate in low areas and form explosive concentrations.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods of containment/cleanup:	Use non-sparking hand tools and explosion proof electrical equipment. Contain and collect with non-combustible absorbent material, and place in container for disposal. Following product recovery, flush area with water.

Section 7: Handling and storage

Handling:	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Ensure adequate ventilation. Use explosion-proof equipment. Keep away from sources of ignition Take measures to prevent the build up of electrostatic charge.
Storage:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Incompatibilities:	Strong oxidizing agents.

Section 8: Exposure controls/ personal protection

Exposure Limits:	Regulator:	Allowance:
Dermal Hydrocarbons C7-C8 cyclics	DNEL (worker)	773 mg/kg bw/day
Inhalation Hydrocarbons C7-C8 cyclics	DNEL (worker)	2,035 mg/m ³ (8 hours)
Dermal Hydrocarbons C7-C8 cyclics	DNEL (General population)	699 mg/kg bw/day
Inhalation Hydrocarbons C7-C8 cyclics	DNEL (General population)	608 mg/m ³ (24 hours)
Oral Hydrocarbons C7-C8 cyclics	DNEL (General population)	699 mg/kg bw/day
Engineering Controls:	Use adequate ventilation to keep airborne concentrations low. An emergency eye wash/shower must be readily accessible to the work area.	
Personal Protective Equipment:		
Personal Respirators:	Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.	
Skin Protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles.	



Section 9: Physical and chemical properties

Appearance

Physical State: Liquid @ 20°C

Color: Colorless

Odor:

Pungent

Odor Perception Threshold: No data available.

pH: No data available.

Specific Temperatures:

Freezing/Melting Point: -126.0°C -194.8°F

Boiling Point: 100-103°C 212-217°F

Decomposition temperature: No data available.

Flammability Characteristics:

Flash Point: -15°C 5°F

Auto-ignition Temperature: > 230°C > 446°F

Explosivity Characteristics:

Lower (LEL): 1.1% (V)

Upper (UEL): 6.7% (V)

Vapor Pressure: < 45 hPa (37.0 mmHg) at 20.0 °C (68.0 °F)

Density:

0.77 g/cm³

Vapor Density (air=1): 773-775 kg/m³ @ 20°C (68°F)

Relative Density (water=1): No data available.

Solubility:

In Water: No data available.

Octanol/water Partition Coefficient: No data available.

Complementary Data:

Molecular Weight: No data available.

Evaporation Rate: 5.0 (EtEt=1)

Section 10: Stability and reactivity

Stability: Stable at room temperature and under normal conditions.

Hazardous Reactions: None under normal processing

Conditions to Avoid: Heat, flames, and sparks.

Incompatibilities: Strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides, various hydrocarbons, aldehydes and soot



Section 11: Toxicological information

Potential health effects:

Inhalation: May be harmful if inhaled.
May cause respiratory tract irritation.
Vapors may cause drowsiness and dizziness.

Skin Contact: May be harmful if absorbed through skin.
May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May be harmful if swallowed.
Aspiration hazard if swallowed- Can enter lungs and cause damage.

Symptoms of Exposure: Prolonged or repeated exposure can cause narcosis.

Numerical measures of Toxicity -

Acute Toxicity:	Test	Subject	Value
Oral	LD 50	Rat	>5,840 mg/kg
Dermal	LD 50	Rat	>2,920 mg/kg (24 hours)
Inhalation	LC 50	Rat	>23,300 mg/m ³ (4 Hours)

Carcinogenicity: No component of this product is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Additional Information: RTECS: GV6125000

Section 12: Ecological information

Eco toxicity:	Test	Subject	Value
Fish:	LC 50	Fish	5.8 mg/l (96 hours)
Fish:	LL 50	Oncorhynchus mykiss	3.6 mg/l (96 hours)
Aquatic invertebrates:	EC 50	Daphnia magna	1.47 mg/l (48 hours)
Aquatic invertebrates:	EL 50	Daphnia magna	3 mg/l (48 hours)
Algae:	ErL 50	Pseudokirchneriella subcapitata	10 mg/l (72 hours)
Algae:	NOELR	Pseudokirchneriella subcapitata	6.3 mg/l (72 hours)

Persistence and degradability: Readily biodegradable (98% after 28 days)

Bio accumulative potential: No data available.

Mobility in soil: Substance is a UVCB. Standard tests for this endpoint are not appropriate.

Section 13: Disposal considerations

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Disposal: Dispose of according to Federal, State, and Local Regulations



Section 14: Transport information

The information in this section is for reference only and should not take the place of a bill of lading specific to an order.

UN number: UN 2296
UN proper shipping name: Methylcyclohexane
Transport hazard class: 3
Packing group number: II
Labels & Placards: FLAMMABLE
EMS-No F-E, S-D

Section 15: Regulatory information

US FEDERAL

TSCA: CAS# 108-87-2 is listed on the TSCA inventory.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE This chemical can be found on the following state right to know lists: **Massachusetts, New Jersey, Pennsylvania, Rhode Island.**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN, F, N

Risk Phrases: R 11 Highly flammable.

R 38 Irritating to skin.

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapors may cause drowsiness and dizziness.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases: S 16 Keep away from sources of ignition - No smoking.

S 33 Take precautionary measures against static discharges.

S 9 Keep container in a well-ventilated place.

S 61 Avoid release to the environment. Refer to special instructions/ SDS

S 62 If swallowed, do not induce vomiting; seek medical advice immediately and show this label.

WGK (Water Danger/Protection) 1

Canada CAS# 108-87-2 is listed on Canada's DSL List.

Section 16 - Other Information

SDS Creation Date: 5/2/2013

Revision date: 1/27/2015

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AllChem be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AllChem has been advised of the possibility of such damages.

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