

Cyclohexane Standard

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 22/08/2017 Revision date: :

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	
Product name	
Product code	
Product group	

- : Mixture : Cyclohexane Standard : AL0-101648
- . The de man due
- : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category Industrial/Professional use spec : Laboratory Use: Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Phenova 6390 Joyce Dr. Suite 100 80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number

: ChemTel Assistance (US/Canada) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

 Flam. Liq. 2
 H225

 Acute Tox. 3 (Oral)
 H301

 Acute Tox. 3 (Dermal)
 H311

 STOT SE 1
 H370

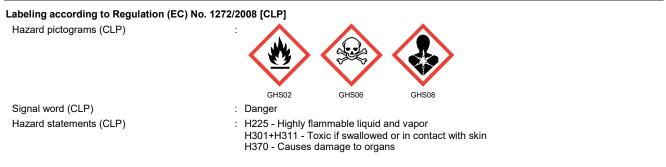
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 T; R23/24/25 T; R39/23/24/25 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements



Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking
	P233 - Keep container tightly closed
	P260 - Do not breathe dust/fume/gas/mist/vapors/spray
	P270 - Do not eat, drink or smoke when using this product
	P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water
	P308+P313 - IF exposed or concerned: Get medical advice/attention
	P361+P364 - Take off immediately all contaminated clothing and wash it before reuse
	P370+P378 - In case of fire: Use media other than water to extinguish
	P403+P235 - Store in a well-ventilated place. Keep cool
	P501 - Dispose of contents/container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation
No labeling applicable	

2.3. Other hazards		
No additional information available		
SECTION 3: Composition/Information on ingredients		

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
methanol (Component)	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X	99.8	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370	
cyclohexane (Component)	(CAS No) 110-82-7 (EC-No.) 203-806-2 (EC index no) 601-017-00-1	0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
Name	Product identifier	Specific	concentration limits	
methanol (Component)	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X		(3 = <c 10)="" 2,="" <="" h371<br="" se="" stot="">(C >= 10) STOT SE 1, H370</c>	

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after skin contact	 Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate medica	al attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.		
	Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : Do not use a heavy water stream.	Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the	
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	neasures
	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
	Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contai	
Methods for cleaning up	: Take up in absorbent material. Collect spillage.
6.4. Reference to other sections	
See Heading 8. Exposure controls and perso	onal protection.
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SECTION 7: Handling and storag	8
7.1. Precautions for safe handling Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or
	smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools.
Hygiene measures	Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
Storage conditions	: Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.
Incompatible materials	: Direct sunlight. Heat sources.
7.3. Specific end use(s) No additional information available	
SECTION 8: Exposure controls/p	ersonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
8.2. Exposure controls Appropriate engineering controls	: Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety
	glasses.
Hand protection	: Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.
Eye protection	: Chemical goggles or safety glasses. Safety glasses.
Skin and body protection	: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
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Do not eat, drink or smoke during use

Other information	Do not eat, drink or smoke during use.	
SECTION 9: Physical and chemical pro	nerties	
9.1. Information on basic physical and chemical properties		
	: Liquid	
Color	Colorless.	
Odor	characteristic.	
рН	No data available	
Melting point	No data available	
Freezing point	No data available	
Boiling point	No data available	
Flash point	No data available	
Auto-ignition temperature	No data available	
Decomposition temperature	No data available	
Flammability (solid, gas)	Highly flammable liquid and vapor	
Relative density	No data available	
Solubility	No data available	
Explosive properties	No data available	
Oxidizing properties	No data available	
Explosion limits	No data available	
•		
9.2. Other information No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Highly flammable liquid and vapor. May form flamma	able/explosive vapor-air mixture.	
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid		
	Open flame.	
Direct sunlight. Extremely high or low temperatures. Open flame.		
10.5. Incompatible materials No additional information available		
10.6. Hazardous decomposition products		
May release flammable gases.		
SECTION 11: Toxicological information	1	
11.1. Information on toxicological effects		
Acute toxicity	Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.	
Cyclohexane Standard		
ATE CLP (oral)	100.2004008016 mg/kg body weight	
ATE CLP (dermal)	300.6012024048 mg/kg body weight	
cyclohexane (110-82-7)		
LD50 oral rat	> 12705 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; >5000 mg/kg bodyweight; Rat)	
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)	
LC50 inhalation rat (mg/l)	 > 19.07 mg/l/4h (Rat; Experimental value) 	
LC50 inhalation rat (ppm)	> 5540 ppm/4h (Rat)	
methanol (67-56-1)		
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)	
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)	
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)	
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)	

ATE CLP (oral)

ATE CLP (dermal)

100 mg/kg body weight

300 mg/kg body weight

methanol (67-56-1)	
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
Skin corrosion/irritation	: Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
	Based on available data, the classification criteria are not met May cause cancer
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity – single exposure	: Causes damage to organs.
Specific target organ toxicity – repeated	: Not classified
exposure	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

cyclohexane (110-82-7)	
LC50 fish 1	4.53 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow- through system; Fresh water; Experimental value)
EC50 Daphnia 1	0.9 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	3.428 mg/l (EbC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum)
Threshold limit algae 2	0.925 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum)
methanol (67-56-1)	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)

12.2. Persistence and degradability

Cyclohexane Standard	
Persistence and degradability	Not established.
cyclohexane (110-82-7)	
Persistence and degradability	Readily biodegradable in water. Non degradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	0.22 g O /g substance
ThOD	3.425 g O /g substance
BOD (% of ThOD)	< 0.5 (Literature study)
methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O /g substance
Chemical oxygen demand (COD)	1.42 g O /g substance
ThOD	1.5 g O /g substance
BOD (% of ThOD)	0.8 (Literature study)

12.3. Bioaccumulative potential	
Cyclohexane Standard	
Bioaccumulative potential	Not established.
cyclohexane (110-82-7)	
BCF fish 2	31 - 129 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	3.44 (Experimental value; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
methanol (67-56-1)	
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
cyclohexane (110-82-7)	
Surface tension	0.025 N/m (20 °C)
Log Koc	log Koc,Other; 2.89; QSAR; Koc; Other; 770; QSAR
methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value
12.5. Results of PBT and vPvB assessme	
No additional information available	
12.6. Other adverse effects	A sold as la sea de des anninement
Additional information	: Avoid release to the environment
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No. (ADR)	: 1992
UN-No. (IATA)	: 1992
UN-No. (IMDG)	: 1992
UN-No. (ADN)	: 1992
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (IATA)	: Flammable liquid, toxic, n.o.s.
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (ADN)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Transport document description (ADR)	: UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), II, (D/E)
14.3. Packing group	
Class (ADR)	: 3
Classification code (ADR)	: FT1
Class (IATA)	: 3
Class (IMDG)	: 3
Class (ADN)	: 3
Classification code (ADN)	: FT1
Subsidiary risks (ADR)	: 6.1
Subsidiary risks (IMDG)	: 6.1

Hazard labels (ADR)	: 3, 6.1	
Hazard labels (IATA)	: 3, 6.1	
Hazard labels (IMDG)	: 3, 6.1	
Hazard labels (ADN)	: 3, 6.1	
	6	
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14.4. Packing group		
Packing group (ADR) Packing group (IATA)	: II : II	
Packing group (IATA) Packing group (IMDG)	: II	
Packing group (ADN)	: II	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
14.6. Special precautions for user	: 336	
14.6.Special precautions for user14.6.1.Overland transport		
14.6. Special precautions for user 14.6.1. Overland transport Hazard identification number (Kemler No.)	: 336 : FT1	
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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3 3 (,)	5 (
PCA packing instructions (IATA)	: 352
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA max net quantity (IATA)	: 1L
PCA Excepted quantities (IATA)	: E2
Special provision (IATA)	: A3
ERG code (IATA)	: 3HP
14.6.4. Inland waterway transport	
Special provision (ADN)	: 274, 802
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, TOX, A
Ventilation (ADN)	: VE01, VE02
Number of blue cones/lights (ADN)	: 2
Carriage prohibited (ADN)	: No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no REACH candidate substance Contains no REACH Annex XIV substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

PHV SDS EU

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