

1-Chlorocyclohexene Safety Data Sheet 1400500 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/27/2017 Version: 1.0

SECTION 1: Identification										
1.1. Identification										
Product form	: Substance									
Substance name	: 1-Chlorocyclohexene									
CAS No	: 930-66-5									
Product code	: 1400-5-00									
Formula	: C6H9Cl									
Synonyms	: 1-Chlorocyclohex-1-ene									
Other means of identification	: MFCD00013773									
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against									
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development									
1.3. Details of the supplier of the safety of	ata sheet									
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com										
1.4. Emergency telephone number										
Emergency number	: (844) 523-4086 (3E Company - Account 1006	<u>(9)</u>								
SECTION 2: Hazard(s) identification										
2.1. Classification of the substance or m	xture									
Classification (GHS-US)										
Flam. Liq. 3H226 - Flammable liquid aAcute Tox. 4 (Oral)H302 - Harmful if swalloweSkin Irrit. 2H315 - Causes skin irritatiEye Irrit. 2AH319 - Causes serious eySTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 16	d on • irritation									
2.2. Label elements										
GHS-US labeling										
Hazard pictograms (GHS-US)	: GHS02 GHS07									
Signal word (GHS-US)	: Warning									
Hazard statements (GHS-US)	<ul> <li>H226 - Flammable liquid and vapor</li> <li>H302 - Harmful if swallowed</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>									
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat/sparks/open flam</li> <li>P233 - Keep container tightly closed</li> <li>P240 - Ground/bond container and receiving of</li> <li>P241 - Use explosion-proof electrical/ventilatii</li> <li>P242 - Use only non-sparking tools</li> <li>P243 - Take precautionary measures against</li> <li>P261 - Avoid breathing fumes, mist, spray, va</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using</li> <li>P271 - Use only outdoors or in a well-ventilate</li> <li>P280 - Wear protective gloves/protective cloth</li> <li>P301+P312 - If swallowed: Call a POISON CE</li> </ul>	equipment ng/lighting equipment static discharge upors g this product ed area ning/eye protection/face protection								
09/27/2017	EN (English US)	SDS ID: 1400500 Page 1								

# 1-Chlorocyclohexene Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	<ul> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P330 - Rinse mouth</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> </ul>										
	P362- P370- P403- P403- P405	P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant									
2.3. Other hazards											
No additional information available											
2.4. Unknown acute toxicity (GHS US)											
Not applicable											
<b>SECTION 3: Composition/information</b>	on in	gredients									
3.1. Substance											
Substance type	: Mono	-constituent									
Name		Product identifier	%	Classification (GHS-US)							
1-Chlorocyclohexene (Main constituent)		(CAS No) 930-66-5	<= 100	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335							
Full text of H-phrases: see section 16				··							
3.2. Mixture											
Not applicable											
SECTION 4: First aid measures											
4.1. Description of first aid measures											
č	where	e of accident or if you feel unwell, seek possible). Move the affected personnel	away from the	contaminated area.							
		ve person to fresh air and keep comforta ation. Get immediate medical advice/atte		g. If not breathing, give artificial							
		with plenty of soap and water. Get imm									
	prese	diately flush eyes thoroughly with water nt and easy to do. Continue rinsing. Get	immediate med	ical advice/attention.							
First-aid measures after ingestion		OT induce vomiting. Never give anything out with water. Get immediate medical									
4.2. Most important symptoms and effects											
Symptoms/injuries		nost important known symptoms and effe nd/or in section 11.	ects are describe	ed in the labelling (see section							
4.3. Indication of any immediate medical a	attentio	n and special treatment needed									
Treat symptomatically.											
SECTION 5: Firefighting measures											
5.1. Extinguishing media											
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media							
5.2. Special hazards arising from the subs	stance o	or mixture									
		nal decomposition generates: Carbon ox	ides. Hydrogen	chloride.							
Explosion hazard		f explosion if heated under confinement ners. May form flammable/explosive va		ay or fog for cooling exposed							

# 1-Chlorocyclohexene Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	March 26, 2012 / Rules and Regulations
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	<ul> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>
SECTION 6: Accidental release meas	
	uipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify authoriti	ies if product enters sewers or public waters.
6.3. Methods and material for containme	ent and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use
	explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
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Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Additional hazards when processed Precautions for safe handling	<ul> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.</li> </ul>
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Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includin Technical measures Storage conditions Incompatible materials Storage area SECTION 8: Exposure controls/perso 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection	<ul> <li>Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.</li> <li>Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> <li>any incompatibilities</li> <li>Comply with applicable regulations.</li> <li>Keep container closed when not in use. Keep away from ignition sources.</li> <li>Refer to Section 10 on Incompatible Materials.</li> <li>Store in dry, cool, well-ventilated area.</li> </ul> onal protection Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Protective gloves. 29 CFR 1910.138: Hand Protection.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includin Technical measures Storage conditions Incompatible materials Storage area SECTION 8: Exposure controls/perso 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection	<ul> <li>Do not hande until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.</li> <li>Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> <li><b>ng any incompatibilities</b> <ul> <li>Comply with applicable regulations.</li> <li>Keep container closed when not in use. Keep away from ignition sources.</li> <li>Refer to Section 10 on Incompatible Materials.</li> <li>Store in dry, cool, well-ventilated area.</li> </ul> </li> <li><b>onal protection</b> <ul> <li>Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.</li> <li>Protective gloves. 29 CFR 1910.138: Hand Protection.</li> <li>Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.</li> </ul> </li> </ul>

# 1-Chlorocyclohexene Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information

: Safety shoes. 29 CFR 1910.136: Foot Protection.

<b>SECTION 9: Physical and chemical</b>	SECTION 9: Physical and chemical properties							
9.1. Information on basic physical and	chemical properties							
Physical state	: Liquid							
Color	: No data available							
Odor	: No data available							
Odor threshold	: No data available							
pH	: No data available							
Melting point	: No data available							
Freezing point	: No data available							
Boiling point	: 142 - 143 °C							
Flash point	: No data available							
Relative evaporation rate (butyl acetate=1)	: No data available							
Flammability (solid, gas)	: No data available							
Explosion limits	: No data available							
Explosive properties	: No data available							
Oxidizing properties	: No data available							
Vapor pressure	: No data available							
Relative density	: No data available							
Relative vapor density at 20 °C	: No data available							
Specific gravity / density	: 1.04 g/ml (@ 20 °C)							
Molecular mass	: 116.59 g/mol							
Solubility	: No data available							
Log Pow	: No data available							
Auto-ignition temperature	: No data available							
Decomposition temperature	: No data available							
Viscosity	: No data available							
Viscosity, kinematic	: No data available							
Viscosity, dynamic	: No data available							
9.2. Other information								
Refractive index	: 1.48 (@ 20 °C)							
<b>SECTION 10: Stability and reactivity</b>								
10.1. Reactivity								
No additional information available								
10.2. Chemical stability								
The product is stable at normal handling and sto	prage conditions.							
10.3. Possibility of hazardous reactions								
No additional information available								
10.4. Conditions to avoid								
Keep away from heat, sparks and flame.								
10.5. Incompatible materials								
Strong bases. Strong oxidizing agents.								
	e							
<b>10.6.</b> Hazardous decomposition product Under normal conditions of storage and use, ha fire, see Section 5.	s izardous decomposition products should not be produced. Hazardous decomposition products in case of							
	tion							
SECTION 11: Toxicological informa								
11.1. Information on toxicological effects								
Acute toxicity	: Oral: Harmful if swallowed.							

09/27/2017

# 1-Chlorocyclohexene

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1-Chlorocyclohexene (930-66-5)	
ATE US (oral)	500.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated xposure)	: Not classified
Aspiration hazard	: Not classified

SECTION	JN 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available
12.4.	Mobility in soil
No additi	onal information available
12.5.	Other adverse effects
No additi	onal information available

SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport information	n

## **Department of Transportation (DOT)**

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

: UN1993 Flammable liquids, n.o.s., 3, III

: UN1993

- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : III Minor Danger
- : 203
- : 242
- : G Identifies PSN requiring a technical name

# 1-Chlorocyclohexene

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations DOT Special Provisions (49 CFR 172.102) B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672) T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. DOT Packaging Exceptions (49 CFR 173.xxx) : 150 DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75) : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a DOT Vessel Stowage Location passenger vessel. Other information : No supplementary information available. TDG No additional information available Transport by sea UN-No. (IMDG) : 1993 Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S. Class (IMDG) : 3 - Flammable liquids Packing group (IMDG) : III - substances presenting low danger Air transport UN-No. (IATA) : 1993 Proper Shipping Name (IATA) : Flammable liquid, n.o.s. Class (IATA) : 3 - Flammable Liquids Packing group (IATA) : III - Minor Danger **SECTION 15: Regulatory information** 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

	1-Chlorocyclohexene						CAS No 930-66-5					100%															
1																											

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

## CANADA

No additional information available

## EU-Regulations

No additional information available

## **National regulations**

No additional information available

# 1-Chlorocyclohexene

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

# **SECTION 16: Other information**

Full tex	t of H-phrases:						
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4				
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A				
	Flam. Liq. 3		Flammable liquids Category 3				
	Skin Irrit. 2		Skin corrosion/irritation Category 2				
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3				
	H226		Flammable liquid and vapor				
	H302		Harmful if swallowed				
	H315		Causes skin irritation				
	H319		Causes serious eye irritation				
	H335		May cause respiratory irritation				
NFPA	health hazard fire hazard reactivity	incapac medica : 2 - Mus tempera : 0 - Norr	nse or continued exposure could cause temporary citation or possible residual injury unless prompt l attention is given. t be moderately heated or exposed to relatively high ature before ignition can occur. mally stable, even under fire exposure conditions, not reactive with water.				
HMIS I	II Rating						
Health		: 3 Seri given	Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is ren				
Flamm	ability	tempe	erate Hazard - Materials which must be moderately heated or exposed to high ambient ratures before ignition will occur. Includes liquids having a flash point at or above 100 F low 200 F. (Classes II & IIIA)				
Physic	al		nal Hazard - Materials that are normally stable, even under fire conditions, and will NOT vith water, polymerize, decompose, condense, or self-react. Non-Explosives.				

SDS US (GHS HazCom 2012)

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