

# SAFETY DATA SHEET

## 1. Identification

#### **Product identifier CYCLOHEXANE, HPLC** Other means of identification Product code 2495 **Synonyms** HEXAHYDROBENZENE **Recommended use** solvent technical function of substance professional, scientific and technical activities: other professional, scientific and technical activities **Recommended restrictions** None known. Manufacturer/Importer/Supplier/Distributor information Manufacturer **Company name** GFS Chemicals, Inc. **Address** P.O. Box 245 Powell, OH 43065 United States Telephone Phone 740-881-5501 **Toll Free** 800-858-9682 Fax 740-881-5989 Website www.gfschemicals.com E-mail service@gfschemicals.com **Emergency phone Emergency Assistance** Chemtrec 800-424-9300

### 2. Hazard(s) identification

number

Physical hazards	Flammable liquids	Category 2
Health hazards	Skin corrosion/irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	
Label elements		



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Signal word	Danger	
Hazard statement	Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/eye protection/face protection.	
Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.	
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.	
Disposal	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.	

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion. None.

#### 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	%
CYCLOHEXANE	HEXAHYDROBENZENE	110-82-7	100

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Rinse skin with water/shower. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Irritation of eyes and mucous membranes. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Wear SCBA. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Should not be released into the environment. Prevent entry into waterways, sewers, basements or confined areas.
	Large Spills: Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. For waste disposal, see section 13 of the SDS.
	Never return spills in original containers for re-use.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
	For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Material Туре Value CYCLOHEXANE (CAS PEL 1050 mg/m3 110-82-7) 300 ppm **US. ACGIH Threshold Limit Values** Material Value Туре CYCLOHEXANE (CAS TWA 100 ppm 110-82-7)

US. NIOSH: Pocket Guide Material	to Chemical Hazards Type	Value	
CYCLOHEXANE (CAS 110-82-7)	TWA	1050 mg/m3	
		300 ppm	
Biological limit values	No biological exposure limits noted	for the ingredient(s).	
Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.		
Individual protection measure Eye/face protection	es, such as personal protective eq Wear safety glasses with side shield	-	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Rubber gloves.		
Other	Wear appropriate chemical resistant clothing.		
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment. Chemical respirator with organic vapor cartridge and full facepiece.		
Thermal hazards	Wear appropriate thermal protectiv	e clothing, when necessary.	
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

## 9. Physical and chemical properties

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Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Strong characteristic odor.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	43.65 °F (6.47 °C)
Initial boiling point and boiling range	177.26 °F (80.7 °C) 101.325 kPa
Flash point	-0.4 °F (-18.0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or ex	xplosive limits
Flammability limit - lower (%)	1.3 %
Flammability limit - upper (%)	8.4 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	12.92 kPa at 25 °C
Vapor density	2.98
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	3.4
Auto-ignition temperature	473 °F (245 °C)
Decomposition temperature	Not available.
Viscosity	Not available.

Other information	
Density	0.778 g/cm3 at 20 °C
Dynamic viscosity	0.98 mPa.s
Flammability class	Flammable IB estimated
Flash point class	Flammable IB
Kinematic viscosity	1.26 mm <sup>2</sup> /s estimated
Molecular formula	C6-H12
Molecular weight	84.16 g/mol
Percent volatile	100 %
Specific gravity	0.78 at 20 °C
VOC (Weight %)	100 %

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport
Chemical stability	Stable at normal conditions. No hazardous self-reactivity. Risk of explosion under certain conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Oxidizing materials.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Irritation of eyes and mucous membranes. Skin irritation. May cause redness and pain.
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#### Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters airways. Narcotic effects.	
Product	Species	Test Results
CYCLOHEXANE (CAS 110-82-	-7)	
Acute		
Inhalation		
NOEL	Monkey	1243 mg/l, 6 Hours
		1243 ppm, 6 Hours
Oral		
LD50	Mouse	1300 mg/kg
	Rat	29820 mg/kg
		12705 mg/kg
* Estimates for product Skin corrosion/irritation	may be based on additional component data not shown. Causes skin irritation.	

Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitization			
<b>Respiratory sensitization</b>	Not available.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	Mutagenic effects have been investigated.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	May be fatal if swallowed and enters airways.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological informatio	n		
Ecotoxicity	Very toxic to aquatic life with long lasting effects.		
Product	Species	Test Results	
CYCLOHEXANE (CAS 110-82-7	)		
Aquatic			
Fish	LC50 Fathead minnow (Pimephales promelas)	23.03 - 42.07 mg/l, 96 hours	
	e based on additional component data not shown.		
Persistence and degradability			
Bioaccumulative potential	Not available.		
Partition coefficient n-octa	nol / water (log Kow)		
3.44			
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone dep potential, endocrine disruption, global warming potentia		
13. Disposal consideratio	ns		
- Disposal instructions	Collect and reclaim or dispose in sealed containers at lic	ensed waste disposal site. Do not allow this	
<b>P</b>	material to drain into sewers/water supplies. Do not cor		
	chemical or used container. Dispose of contents/contain	er in accordance with	
	local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion betwe disposal company.	en the user, the producer and the wast $\epsilon$	
US RCRA Hazardous Waste	U List: Reference		
CYCLOHEXANE (CAS 110-	82-7) U056		
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty or residues. This material and its container must be dispose instructions).		
Contaminated packaging	Empty containers should be taken to an approved waster Since emptied containers may retain product residue, for emptied.		
14. Transport information	n		
•	•		
DOT			
UN number UN proper shipping name	UN1145 Cyclohexane, MARINE POLLUTANT		
Transport hazard class(es)	•		
Class	3		
Subsidiary risk	-		
Label(s)	3		
Packing group	II		
Environmental hazards	Ver		
Marine pollutant Special precautions for	Yes Read safety instructions, SDS and emergency procedure	as before handling	
special precautions for user	אכמע שמוכנע ווושנו ענוטווש, ששם מווע פווופועפווגע אוסטפטעופ		
Special provisions	IB2, T4, TP1		
Packaging exceptions	150		
Packaging non bulk	202		
Packaging bulk	242		
IATA			
UN number	UN1145		
IIN proper shipping name			

UN proper shipping name Cyclohexane

Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
<b>Environmental hazards</b>	No.
ERG Code	3H
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1145
UN proper shipping name	CYCLOHEXANE, MARINE POLLUTANT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	Yes
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
DOT	





## 15. Regulatory information

	29 CFR 1910.1200. All components are on the		ed by the OSHA Hazard Communication Standa Itory List.
TSCA Section 12(b) Expo	ort Notification (40 CFR 707	7, Subpt. D)	
Not regulated.			
	tance List (40 CFR 302.4)		
CYCLOHEXANE (CAS 11		Listed.	
SARA 304 Emergency rel Not regulated.	lease notification		
-	Reauthorization Act of 198	RE (EADA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	50 (SARA)	
SARA 302 Extremely haz Not listed.	zardous substance		
SARA 311/312 Hazardous chemical	Yes		
SARA 313 (TRI reporting	1)		
Chemical name		CAS number	% by wt.
CYCLOHEXANE		110-82-7	100
ther federal regulations			
-	ion 112 Hazardous Air Pollu	utants (HAPs) List	
Not regulated. Clean Air Act (CAA) Sect	ion 112(r) Accidental Relea	se Prevention (40	CFR 68.130)
Not regulated.		Υ.	
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Hazardous substance		
00.1301			
Safe Drinking Water Act (SDWA)	Not regulated.		
Safe Drinking Water Act	Not regulated.		
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Country(s) or region	Inventory name	On inventory (yes/no)*
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	May-12-2015
Version #	01
Disclaimer	GFS Chemicals cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision Information	Product and Company Identification: Product Codes Composition / Information on Ingredients: Disclosure Overrides