

Material Safety Data Sheet

Revision date 03-Mar-2015

Supersedes date: 05-Jan-2014

Version 2

1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Identification

Product name CYCLOHEXYL BENZENE
Chemical name Benzene, cyclohexyl-
CAS-No. 827-52-1

Use of the substance/mixture

Recommended uses High boiling point solvent, organic synthesis.
Uses advised against None known.

Company/undertaking identification

Company Schultz Canada Chemicals Ltd
address: 1699 Matthews Ave
Vancouver BC, V6J 2T3
Telephone 778-383-2793
E-mail address Jillian.Jiang@schultzchem.com
Emergency Telephone 778-938-5977

2. Hazards Identification

Hazard classification

Flammable liquids	Category 4
Acute toxicity ,Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Warning label items including precautionary statement

Pictogram



Signal words: warning

Hazard statements	
H227	Combustible liquid
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P264	Wash hands thoroughly after handling.
P270	Do not eat,drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
Response	
P370 + P378	In case of fire: Use water spray, carbon dioxide, dry chemical or foam to extinguish.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P330	Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338	IF IN EYES:Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
Storage	
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with local/regional/national/international regulations.
Other hazards	According to the European regulations are defined as non explosive

hazardous substances.
Mixture of steam and air to form explosive mixtures.

3. Composition/Information on Ingredients

Component	Concentration (Weight %)	CAS No.
Cyclohexyl benzene	100	827-52-1

4. First-Aid Measures

General advice	In case of doubt or symptoms persist, seek medical advice. In case of unconscious, get medical attention immediately.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately if symptoms occur.
Skin contact	Rinse immediately contaminated clothing and skin with plenty of water. First wash with water, then wash with soap and water, then continue to use polyethylene glycol 400 to eliminate pollution. If skin irritation occurs: Get medical advice/attention.
Inhalation	Remove to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
Ingestion	If swallowed: rinse mouth with water. Call a physician immediately.
effects, both acute and delayed	
Notes to physician	Symptomatic treatment.

5. Fire-Fighting Measures

Suitable extinguishing media	Water spray, Foam, Dry powder, Carbon dioxide (CO ₂).
Extinguishing media which shall not be used for safety reasons	Do not use direct water stream. May spread fire.
Special hazard	May ignite at high temperature. During fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not

	limited to: Hydrocarbons. Carbon monoxide. Toxic to aquatic life with long lasting effects. Runoff may pollute waterways.
Special protective equipment for firefighters	As in any fire, wear self-contained breathing apparatus (SCBA) , and full protective gear.Evacuate all persons from the vicinity Promptly isolate the scene. Prevent fire extinguishing water from contaminating surface water and groundwater systems .Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and extinguishing water contaminated must comply with local regulations for disposal. In the premise there is no danger of the container is removed from the scene in. Water spray to cool containers / tanks.

6. Accidental Release Measures

Personal precautions	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use only non-sparking tools.Do not touch or walk through spilled material. Avoid contact skin, eyes and clothing. Wear personal protective equipment. If appropriate refer to headings 8.
Environmental precautions	Avoid release to the environment.Stop leak if safe to do so.Clean up spill immediately. Prevent from entering into soil,drains or water courses.
Methods for containment and cleaning up	Small spills: as far as possible the leaking fluid collection in airtight containers. Absorb with sand, diatomaceous earth or other inert materials. Large spills: constructing dike or have dug a pit for a large number of the leakage, and transferred to the properly labeled containers, recycling or shipped to the disposal of waste places. Clean contaminated surface thoroughly. Prevent product and washing from entering drains, sewers or surface water. If appropriate refer to headings 13.

7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Wear personal protective equipment.Wash thoroughly after handling.Use in well ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. See also headings 8.
Storage	Store in a well-ventilated place. Keep container tightly closed. Keep away from direct sunlight. Keep away from contact with oxidizing materials. Away from fire and heat source. To avoid environmental contamination.Store in accordance with local regulations.

8. Exposure Controls/Personal Protection

Exposure limits	No data available.
Exposure controls	
Engineering controls	Maintain air concentrations below occupational exposure standards. Apply technical measures to comply with the occupational exposure limits.If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
Personal protective equipment	
Eye/face protection	Use chemical goggles. In order to avoid direct exposure to liquid splashes, mists or dusts suggestion: Wear safety glasses with side shields if splashing may occur, wear a mask.
Skin and body protection	Wear protective gloves.If necessary, wear protective clothing and rubber boots to prevent skin and body contact with liquid Material.
Respiratory protection	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hand protection	Wear chemical resistant gloves. Please read carefully the glove supplier Explain the permeability about gloves and solvent penetration time.

9. Physical and Chemical Properties**Physical/ chemical properties Information**

Appearance	
Physical state	liquid
Form	liquid
Color	colorless
Odor	Aromatic
Odor threshold	No data available
pH	No data available
Melting point/freezing point	7°C
Boiling point/boiling range	190 °C (1013 hPa)
Flash point	89 °C
Evaporation Rate	No data available
Flammability (solid, gas)	Not flammable
Flammability Limits in Air	
Upper flammability limit	No data available

Lower flammability limit	No data available
Vapor pressure	1 hPa (20°C)
Vapor density	No data available
Specific gravity	950 kg/m ³ (25 °C)
Water solubility	<2 mg/l (20°C)
Solubility in other solvents	No data available
Partition coefficient:n-octanol/water	Log Pow:4.876
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	2.03 mm ² /s (40 °C)
Explosive properties	Not classified
Oxidizing properties	Not classified

10. Stability and Re-activity

Reactivity	Material is Stable under normal conditions.
Chemical stability	Material is Stable under normal conditions.
Possibility of hazardous reactions	None under normal conditions.
Conditions to avoid	Heat, sparks and flames.
Incompatible materials	Strong oxidizing agents.
Hazardous polymerization	Hazardous polymerization will not occur.
Hazardous decomposition products	Emits acrid smoke and fumes when heated to decomposition.

11. Toxicological Information

Information on likely routes of exposure

Eye contac	Causes eye burns.
Skin contact	Harmful if absorbed through skin. Causes skin burns.
Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	Harmful if swallowed.

Information on toxicological effects

Acute toxicity	
Oral	LD50 (Rat): 5000 mg/kg.

Dermal	LD50 (Rabbit): >7940mg/kg.
Inhalation	No data available.
Skin corrosion/irritation	Skin - rabbit - Severe skin irritation - 24 h - Draize Test.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Toxicity to reproduction	No information available.
Developmental toxicity	No information available.
Germ cell mutagenicity	No information available.
Specific target organ toxicity - Single exposure	No information available.
Specific target organ toxicity - Repeated exposure	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.

12. Ecological Information

Ecotoxicity

Acute aquatic toxicity	
Fish	No data available.
Aquatic invertebrates	EC50: 0.55 mg/l (Daphnia magna, 48 h)
Acute to aquatic plants	
Algae/aquatic plants	No data available.
Chronic aquatic toxicity	
Fish	No data available.
Aquatic invertebrates	No data available.
Toxicity to aquatic plants	No data available.
Persistence and degradability	
Biodegradation	No data available.
BOD/COD Ratio	No data available.
Bioaccumulative potential	

Bioconcentration pactor (BCF)	No data available.
Partition coefficient n-octanol / water	No data available.
Mobility in soil	No data available.
Other adverse effects	Very toxic to aquatic life.

13. Disposal Considerations

Waste disposal methods	Do not allow into any sewers, ground, or into any water. All disposal practices must be in compliance with state and local laws and regulations. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in headings 8 (exposure controls and personal protection) of the SDS.
Contaminated packaging	Empty packaging should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

IMDG	
UN/ID No.	UN 3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyclohexyl benzene)
Hazard class	9
Packing group	III
IATA	
UN/ID No.	UN 3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Cyclohexyl benzene)
Hazard class	9
Packing group	III

15. Regulatory Information

United States	
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311-312 Hazard Classification(s)	Fire Hazard,Acute Health Hazard.
OSHA Hazards	Combustible Liquid, Harmful by ingestion., Corrosive.
Canada	
DSL Status	All components of this product are on the Canadian DSL list.

16. Other Information

Supersedes date	05-Jan-2014
Revision date	03-Mar-2015
Revision note	New SDS format. SDS sections updated: All.

Disclaimer

The SDS information applies only to the specified product, unless otherwise specified, in the case of a mixture of this product with other substances, which do not apply. The information provided is a guide for the safe operation and not as a guarantee of the quality manual. The SDS only those received professional training in the proper use of the product provides product safety information for. Users of this SDS, under special conditions of use must be made of the suitability of the SDS independent judgment. In special occasions, due to the use of this SDS caused injury, this SDS writers will not be held responsible.
