



Colonial Chemical Solutions, Inc

Material Safety Data Sheet – CYCLOHEXANE

SECTION I • PRODUCT IDENTIFICATION

Manufacturers Address:
916 West Lathrop Avenue
Savannah, Georgia 31415

CHEMTREC – 24HR Emergency Telephone 1-800-424-9300

Information Phone: (912) 443-6702

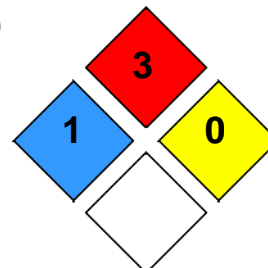
Date Prepared: 1-November 2011

Preparer: F.Spaeth

Synonym: Hexahydrobenzene; Hexamethylene;
Hexanaphthene

Chemical Family: Cycloparaffinic Hydrocarbon

NFPA Rating
0- Minimal 1- Slight 2- Moderate
3- Serious 4- Extreme



SECTION II • HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS Number	%WT	ACGIH	OSHA
Cyclohexane	100-82-7	100	100 ppm	300 ppm

SECTION III • PHYSICAL and CHEMICAL PROPERTIES

Boiling Point: 177 °F

pH: N/A

Solubility In Water: Negligible

Appearance/Odor: Colorless liquid with chloroform-like odor.

Vapor Density (Air=1): 2.9

Evaporation Rate: 1.9

Specific Gravity (H₂O=1): 0.78

Vapor Pressure (mmHg): 3.2

SECTION IV • FIRE FIGHTING MEASURES

Flash Point: -18 °F

Extinguishing Media: To extinguish flames use dry chemical, carbon dioxide or fire fighting foam..

Fire Fighting Procedures: Flammable liquid and vapor! As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. This liquid floats on water and may travel to a source of ignition and spread fire.

Fire and Explosion Hazards: Extremely flammable. Containers can rupture and explode under fire conditions due to pressure and vapor buildup. Vapors may form explosive mixture with air. Vapors may travel across the ground and reach an ignition source.

SECTION V • STABILITY AND REACTIVITY

Stability: Stable under normal use and use conditions.

Conditions to Avoid: Avoid excessive heat, sparks or open flames and incompatibles.

Incompatibility: Reacts with oxygen and strong oxidizing agents.

Hazardous Decomposition Products: Oxides of carbon.

Hazardous Polymerization: Will not occur.

SECTION VI • STORAGE AND HANDLING

Precautions To Be Taken In Handling and Storage: This material presents a fire hazard. Liquid quickly evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Use non-sparking tools. Bond and ground all equipment to prevent static discharge during transfer. Avoid contact with product. Do not breath vapors. Always store in a tightly sealed and properly labeled container. Store in a cool, dry well ventilated area, away from acute fire hazards. **Other Precautions:** Follow Label Instructions and Precautions.



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SECTION VII - HEALTH AND FIRST AID

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin causes irritation. Prolonged or repeated skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling, and blistering.

Ingestion: This material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death.

Inhalation: Breathing of high vapor concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness. The vapor or fumes from this material may cause respiratory irritation.

FIRST AID PROCEDURES:

Eye: Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention.

Skin: To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any symptoms develop.

Ingestion: If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Wear eye protection such as safety glasses, chemical goggles, or faceshields when handling or transferring this material.

Skin Protection: Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing.

Respiratory Protection: Where exposure limits are exceeded and sustained use a NIOSH approved respirator for organic vapors. In confined spaces or if an uncontrolled release occurs use a self-contained breathing apparatus (SCBA). See OSHA 29 CFR 1910-134 for specifics.

Ventilation: A system of local and/or general mechanical ventilation to prevent excessive vapor accumulation is recommended to keep employee exposure below exposure limits.

SECTION IX - ACCIDENTAL RELEASE MEASURES

Ventilate the area and stop source of spill. Eliminate all sources of ignition in the vicinity of the spill or released vapor. Salvage and recycle as much material as possible. Eliminate sources of ignition. For small spills, use absorbent material such as towels or absorbent powders. Put all material into proper waste disposal container with lid tightly covered. For larger spills, dike spill, recover as much salvageable liquid as safely possible, and use absorbent material to dry area. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Rinse area with water. Put all material into appropriate waste containers. Avoid contaminating ground and surface water.

SECTION X - DISPOSAL CONSIDERATIONS

Reuse or reprocess if possible. Processing, use or contamination of this product may change the waste management options. It is the generators responsibility for making proper hazardous waste determinations at the time of disposal.



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SECTION XI • TRANSPORTAION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name: Cyclohexane
Hazard Class: 3, Flammable
UN Number: 1145
Packaging Group: II

SECTION XII • ECOLOGICAL

Ecotoxicological Information: This material is expected to be toxic to aquatic organisms.
Environmental Fate: This material is expected to be readily biodegradable.

SECTION XIII • TOXICOLOGY

Carcinogenicity: Not IARC, NTP or ACGIH Classified.
Mutagenicity: Has not been reported to produce mutagenic effects in humans.
Reproductive: Has not been reported to produce reproductive effects in humans.
Toxicity: Has not been reported to produce toxic effects in humans.

SECTION XIV • REGULATORY

RMP/PSM: Material is not listed.
CERCLA-RQ: 1,000 lbs.
SARA 311/312: Acute and Fire only.
SARA 313: This material contains chemicals subject to the reporting requirements of SARA 313 – Cyclohexane CAS 110-82-7
FIFRA: No documented information found.
RCRA-CODE: It is the responsibility of the user to determine if the material is a RCRA hazardous waste at the time of disposal.
TSCA: All ingredients in this mixture are listed

SECTION XV • OTHER INFORMATION

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.