

Catalog Number: 300118 Revision date: 26-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 300118

Product name: N-HEXANE 95%, GC GRADE

Synonyms: Hexane; Esani; Gettysolve-B Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components N-HEXANE CAS Number 110-54-3 Weight % 90 - 100% ACGIH Exposure Limits: 50 ppm TWA OSHA Exposure Limits: 500 ppm TWA; 1800 mg/m³ TWA

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Harmful to flora, fauna, soil organisms and aquatic organisms., Flammable, Harmful: danger of serious damage to health by prolonged exposure through inhalation, skin contact and if swallowed.

Category of Danger:

Harmful, Dangerous for the environment, Flammable, Repr. cat. 3

Principle routes of exposure: Skin

Inhalation: Harmful: possible risk of irreversible effects through inhalation.
 Ingestion: Harmful: danger of serious damage to health if ingested.
 Skin contact: Harmful: danger of serious damage to health by prolonged skin contact.
 Eye contact: Risk of serious damage to eyes

Statements of hazard HARMFUL IF SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.

Flammable

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

Precautions - ANSI Label Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.
Skin contact: Rinse immediately with plenty of water and seek medical advice
Ingestion: Induce vomiting if person is conscious. Drink 1 or 2 glasses of water.
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Protection of first-aiders: No information available
Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:		Use dry chemical, CO2, water spray or "alcohol" foam, Halons, Use dry chemical, CO2, water spray or `alcohol` foam.		
Specific hazards:		A very dangerous fire hazard. A dangerous explosion hazard when exposed to heat or flame. Mixtures with dinitrogen tetraoxide may explode at 28°C.		
Unusual hazards:		None known		
Special protective equipment for firefighters:		Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire and/or explosion do not breathe fumes.		
Specific methods: Flash point:		Water mist may be used to cool closed containers. Not determined		
Autoignition temperature: NFPA rating:		225 °C (447 °F)		
NFPA Health:	1			
NFPA Flammability:	3			
NFPA Reactivity:	0			

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Environmental precautions: Methods for cleaning up: Use personal protective equipment. Prevent product from entering drains. Ground and bond containers when transferring material

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE

Handling:

Safe handling advice:

Technical measures/storage conditions:

Incompatible products:

Use only in area provided with appropriate exhaust ventilation. Remove and wash contaminated clothing before reuse. Wear personal protective equipment. Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas. **PERSONAL PROTECTIVE EQUIPMENT**

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Long sleeved clothing Impervious clothing

Eye protection: If splashes are likely to occur, wear: Safety glasses with side-shields

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Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor Physical state: Formula: Molecular weight: Melting point/range: Boiling point/range: Density: Vapor pressure:

Evaporation rate: Vapor density: Solubility (in water): Flash point: Autoignition temperature: Colorless; faint petroleum odor Liquid C6-H14 86.18 -95 °C (-139 °F) 69 °C (156 °F) 0.66 at 20 °C (water = 1) 124 mm Hg at 20 °C 150 mm Hg at 24.8 °C Specific data not available - rapid 2.97 (air = 1) Insoluble Not determined 225 °C (447 °F)

10. STABILITY AND REACTIVITY

Stability: Polymerization: Hazardous decomposition products:

Materials to avoid: Conditions to avoid:

Product Information

Stable under recommended storage conditions. None under normal processing. Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides. Strong oxidising agents Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Components N-HEXANE	RTECS Number: MN9275000	Selected LD50s and LC50s Inhalation LC50 Rat : 48000 ppm/4H Oral LD50 Rat : 28710 mg/kg	
Chronic toxicity:	Chronic exposure may cause nausea unconsciousness.	a and vomiting, higher exposure causes	
Local effects:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.		
Specific effects:	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.		
Primary irritation:	No data is available on the product itself.		
Carcinogenic effects:	No data is available on the product itself.		
Mutagenic effects:	No data is available on the product itself.		
Reproductive toxicity:	Reprotoxic category 3 corresponds to fertility.	o `substances which cause concern for human	
Components	NIOSH - Health Effects	NIOSH - Target Organs	
N-HEXANE		skin, eyes, respiratory system, CNS, PNS	

12. ECOLOGICAL INFORMATION

Mobility: Bioaccumulation: Catalog Number: 300118 No data available No data available Product name: N-HEXANE 95%, GC GRADE

Ecotoxicity effects: Aquatic toxicity:		No data avail May cause lo environment.		effects in the aquatic
Components N-HEXANE	U.S. DOT - Appendix B - Marine Pollutan Not Listed	U.S. DOT - A Severe Marir Not Listed	ppendix B - ne Pollutants	United Kingdom - The Red List: Not Listed
Components N-HEXANE	Germany VCI (WGK) 1	World Health (WHO) - Drin Not Listed	n Organization king Water	Ecotoxicity - Fish Species Data LC50 (96 hr) rainbow trout:4.14 mg/L.:;LC50 (96 hr) fathead minnow:5.10 mg/L.:;LC50 (96 hr) bluegill:4.12 mg/L.:
Components N-HEXANE	Ecotoxicity - Freshwater Algae Data Not Listed	Ecotoxicity - Not Listed	Microtox Data	Ecotoxicity - Water Flea Data LC50 (48 hr) water flea:3.87 mg/L.:
Components N-HEXANE	EPA - ATSDR Priority List Not Listed	EPA - HPV C Program Che indicator 4; Fe sponsored		California - Priority Toxic Pollutants Not Listed
Components N-HEXANE	California - Priority Toxic P Not Listed	ollutants	California - Pr Not Listed	iority Toxic Pollutants

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous
	waste regulatory authority. Residue from fires extinguished with this material may be hazardous.
Contaminated packaging:	Do not re-use empty containers
Methods for cleaning up:	Ground and bond containers when transferring material

14. TRANSPORT INFORM	ATION
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UN/Id No:	1208
DOT:	
Proper shipping name:	Hexanes
IATA Hazard Label(s):	Flammable Liquid
Hazard Class	3 -
	Flammable liquid
Packing group:	II
Emergency Response Guide Number (ERG):	128

Components N-HEXANE **U.S. DOT - Appendix A Table 1 - Reportable Quantities** RQ = 5000 pounds (2270 kg)

TDG (Canada): WHMIS hazard class:

IMDG/IMO

Proper shipping name:

Hexanes

IMDG - Hazard Classifications IMDG - Regulated Substances IMDG class or division = 3 UN1208

ComponentsU.S. DOT - Appendix B - Marine PollutanU.S. DOT - Appendix B - Severe Marine
PollutantsN-HEXANENot ListedNot Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components N-HEXANE Inventory - United States Ta Canada DSL Inventory List Australia (AICS): Inventory - China: EU EINECS List - Inventory - Japan: Korean KECL: Philippines PICCS:		Present Present Present 203-777-6; C 2-6 KE-18626 Present	C6H14	
U.S. regulations: Components N-HEXANE	California Proposition 65 - Not Listed	Massachusetts Right to Know List: [present]	New Jersey Right to Know List: sn 1340	Pennsylvania Right to Know List: [present]
Components N-HEXANE	Florida substance List: [present]	Rhode Island Right to Know List: Toxic, Flammable	Illinois - Toxic Air Contaminants Present on HAP list	Connecticut - Hazardous Air Pollutants 3,600 ug/m ³ HLV; 1 ppmv HLV
Components	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:
N-HEXANE	form R reporting required for 1.0% de minimis concentration	Not Listed	None	None

SARA 313 Notification:	The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372.		
	If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).		
State Notification:	The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.		

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet