



Material Safety Data Sheet

Catalog Number: 300119
Revision date: 26-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 300119

Product name: N-HEXANE 95%, ACS 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	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
N-HEXANE	110-54-3	90 - 100%	50 ppm TWA	500 ppm TWA; 1800 mg/m ³ 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:

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

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 tetroxide may explode at 28°C.

Unusual hazards:

None known

Special protective equipment for firefighters:

In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary.

Specific methods:

Water mist may be used to cool closed containers.

Flash point:

Not determined

Autoignition temperature:

225 °C (447 °F)

NFPA rating:

NFPA Health:	1
NFPA Flammability:	3
NFPA Reactivity:	0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment.

Environmental precautions:

Prevent product from entering drains.

Methods for cleaning up:

Ground and bond containers when transferring material

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE

Handling:

Use only in area provided with appropriate exhaust ventilation.

Safe handling advice:

Wear personal protective equipment. Remove and wash contaminated clothing before reuse.

Technical measures/storage conditions:

Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed in a dry and well-ventilated place.

Incompatible products:

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: Impervious clothing Long sleeved clothing

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

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



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor	Colorless; faint petroleum odor
Physical state:	Liquid
Formula:	C6-H14
Molecular weight:	86.18
Melting point/range:	-95 °C (-139 °F)
Boiling point/range:	69 °C (156 °F)
Density:	0.66 at 20 °C (water = 1)
Vapor pressure:	124 mm Hg at 20 °C 150 mm Hg at 24.8 °C
Evaporation rate:	Specific data not available - rapid
Vapor density:	2.97 (air = 1)
Solubility (in water):	Insoluble
Flash point:	Not determined
Autoignition temperature:	225 °C (447 °F)

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Product 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 and vomiting, higher exposure causes unconsciousness.
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 `substances which cause concern for human fertility`.

Components
N-HEXANE

NIOSH - Health Effects

NIOSH - Target Organs

skin, eyes, respiratory system, CNS, PNS

12. ECOLOGICAL INFORMATION

Mobility:	No data available
Bioaccumulation:	No data available

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**Ecotoxicity effects:
Aquatic toxicity:**

No data available
May cause long-term adverse effects in the aquatic environment.

Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
N-HEXANE	Not Listed	Not Listed	Not Listed
Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
N-HEXANE	1	Not Listed	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	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
N-HEXANE	Not Listed	Not Listed	LC50 (48 hr) water flea:3.87 mg/L.:
Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
N-HEXANE	Not Listed	indicator 4; Fully and ICCA sponsored	Not Listed
Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants	
N-HEXANE	Not Listed	Not Listed	

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:
Methods for cleaning up:**

Do not re-use empty containers
Ground and bond containers when transferring material

14. TRANSPORT INFORMATION

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:

B2 flammable liquids
D2b toxic materials



IMDG/IMO

Proper shipping name:

Hexanes

IMDG - Hazard Classifications
IMDG - Regulated Substances

IMDG class or division = 3
UN1208

Components

U.S. DOT - Appendix B - Marine Pollutan

**U.S. DOT - Appendix B - Severe Marine
Pollutants**

N-HEXANE

Not Listed

Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components

N-HEXANE

Inventory - United States TSCA - Sect. 8(b)

Present

Canada DSL Inventory List -

Present

Australia (AICS):

Present

Inventory - China:

Present

EU EINECS List -

203-777-6; C6H14

Inventory - Japan:

2-6

Korean KECL:

KE-18626

Philippines PICCS:

Present

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/m³ HLV; 1 ppmv HLV

Components

N-HEXANE

**SARA 313 Emission
reporting/Toxic Release
of Chemicals**

form R reporting required
for 1.0% de minimis
concentration

**CERCLA/SARA - Section
302 Extremely Haz**

Not Listed

NTP:

None

IARC:

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 Amendments 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