Rocky Mountain Reagents
SCIENTIFIC SOLUTIONS SINCE 1951

SDS

Safety Data Sheet

1. IDENTIFICATION

Product Identifier: **Hexanes**

Product Code(s): H1003, H1080, CSH1003, CSH1031

Synonyms: Mixed Hexane Isomers

Recommended Use: For manufacturing, industrial, and laboratory use only. For use as a solvent or as a laboratory reagent.

Uses Advised Against: Not for food, drug, or household use.

Supplier:
Rocky Mountain Reagents, Inc.
4621 Technology Drive, Golden, CO 80403
Phone: (303) 762-0800 Fax: (303) 762-1240

Emergency Phone Number: (800) 255-3924 (VelocityEHS)

2. HAZARDS IDENTIFICATION

Hazard Classifications:

Skin Corrosion/Irritation:	Category 2
Reproductive Toxicity:	Category 2
Specific Target Organ Toxicity (Single Exposure):	Category 3
Specific Target Organ Toxicity (Repeated Exposure):	Category 2
Aspiration Hazard:	Category 1
Flammable Liquids:	Category 2

Signal Word: DANGER

Hazard Statements:
Causes skin irritation.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
May cause damage to organs thorough prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Highly flammable liquid and vapor.

Pictograms:



Precautionary Statements:

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash thoroughly after handling.
Wear protective gloves, protective clothing, eye protection, and face protection.
Do not breathe fume, mist, vapor, or spray.
Use only outdoors or in a well-ventilated area.
Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
Keep container tightly closed.
Ground or bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, and transportation equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

Response:
If exposed or concerned: Get medical attention.
Get medical attention if you feel unwell.
If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse.
Rinse skin with water. If skin irritation occurs: Get medal attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you fell unwell.
If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.
In case of fire: Use water spray, dry powder, alcohol resistant foam, or carbon dioxide to extinguish.

Storage:
Store locked up.
Store in a well-ventilated place.
Keep container tightly closed.
Keep cool.

Disposal:
Dispose of contents and container in accordance with local, regional, national, and international regulations.

Hazards Not Otherwise Classified:
Toxic to aquatic life with long lasting effects.

Toxicity Statement:
Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
n-Hexane	Hexane; Normal hexane	110-54-3	$CH_3(CH_2)_4CH_3$	50 - < 75
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Naptha (petroleum), hydrotreated light	64742-49-0	N/A	25 - < 50
Cyclohexane	Hexamethylene; Hexanaphthene	110-82-7	C_6H_{12}	1 - < 5

Trade Secret Statement:
Not applicable.

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation:
Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-

mouth resuscitation when the inhaled or ingested material is toxic, infectious, or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor immediately if you feel unwell or if breathing is irregular or stopped.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Immediately call a poison center or doctor.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with plenty of water for at least 15 minutes. Wash clothing before reuse. If skin irritation occurs: Get medical attention.

Eye Contact: Check for and remove contact lenses, if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

General Advice: Poison information centers in each state can provide additional assistance for scheduled poisons. Ensure that medical personnel and those providing first aid are aware of the material(s) involved and take precautions to protect themselves.

Symptoms and Effects: Narcotic effects, headache, nausea, vomiting, behavioral changes, decrease in motor functions, redness, pain. Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis.

Immediate Medical Care/ Special Treatment: If you feel unwell or are concerned, call a poison center or doctor immediately. Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream, as it may scatter and spread fire.

Hazardous Combustion Products: Carbon oxides.

Specific Hazards: Highly flammable liquid and vapor. In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. This liquid may accumulate static electricity when filling properly grounded containers. Static accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Special Protective Equipment/ Precautions for Firefighters: As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. Use water spray to cool unopened containers. Move containers from fire area, if you can do so without risk. This material may evaporate and leave a flammable residue if spilled. In the event of fire and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment: Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment (see Section 8). Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharge. All equipment used when handling this product must be grounded. Use spark-proof tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing.

Emergency Procedures: In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).

Methods for Containment: Eliminate all sources of ignition. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material where possible. Product should not be released to the environment. Contain and recover liquid when possible.

Methods for Cleanup: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Do not handle, store, or open near an open flame, sources of heat, or sources of ignition. Wear personal protective equipment (see Section 8). Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work areas. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Take precautionary measures against static discharge. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and precautions listed for this product.

Storage: Store in a cool, dry, ventilated area. Store in a segregated and approved area away from incompatible materials (see Section 10). Store locked up. Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Ground container and transfer equipment. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

n-Hexane:	NIOSH REL:	TWA: 50 ppm (180 mg/m^3), 10 h
	ACGIH TLV:	TWA: 50 ppm
	29 CFR 1910.1000 PEL:	TWA: 500 ppm (1800 mg/m^3)
Cyclohexane:	NIOSH REL:	TWA: 300 ppm (1050 mg/m^3), 10 h
	ACGIH TLV:	TWA: 100 ppm
	29 CFR 1910.1000 PEL:	TWA: 300 ppm (1050 mg/m^3)

Engineering Controls: Ensure adequate ventilation. 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.

Personal Protective Measures:

Eye/Face Protection: Wear safety glasses with side shields or goggles. Maintain approved eye wash station and accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.

Respiratory Protection: An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or in any other circumstances where air-purifying respirators may not provide adequate protection.

Specific Requirements for Personal Protective Equipment: Ensure that glove material is compatible with this product. This information is available from glove manufacturers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Unless otherwise indicated, all properties are given at 25 °C and standard pressure.

Appearance:	Colorless, transparent liquid.
Odor:	Characteristic, hydrocarbon.
Odor Threshold:	No information found.
Formula Weight:	86 (as n-Hexane)
pH:	No information found.
Melting/Freezing Point:	No information found.
Boiling Point/Range:	66 – 70 °C
Decomposition Temperature:	No information found.
Flash Point:	- 22 °C
Auto-ignition Temperature:	> 200 °C
Flammability:	Highly flammable liquid and vapor.
Flammability/Explosive Limits:	Lower explosion limit (LEL): 1.2 vol% Upper explosion limit (LEL): 7.3 vol%
Solubility:	Insoluble in water.
Vapor Pressure:	133 mmHg at 20 °C
Vapor Density:	No information found.
Specific Gravity:	0.67 (Water = 1)
Evaporation Rate:	8.1 (n-butanol = 1)
Viscosity:	0.46 cSt at 40 °C (kinematic)
Partition Coefficient (n-octanol/water):	No information found.

10. STABILITY AND REACTIVITY

Reactivity Data: Highly flammable liquid and vapor. See Section 9.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid:	Heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not pressurize, cut, weld braze, solder, drill, grind, or expose containers to heat or sources of ignition. Contact with incompatible materials.
Incompatible Materials:	Oxidizers.
Hazardous Decomposition Products:	Carbon oxides.
Possibility of Hazardous Reactions:	May react vigorously, violently, or explosively if exposed to extreme thermal conditions or in contact with the incompatible materials listed above.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:	Inhalation, ingestion, skin contact, eye contact.
Acute Effects:	Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis.
Chronic Effects:	May cause damage to organs through prolonged or repeated exposure.
Toxicological Data:	ATE, Inhalation: 20 mg/L, 4 h
Symptoms of Exposure:	Narcotic effects, headache, nausea, vomiting, behavioral changes, decrease in motor functions, redness, pain.
Carcinogenic Effects:	No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicological Data:	Toxic to aquatic life with long lasting effects.
Persistence and Degradability:	The product is insoluble in water and will spread on water surfaces.
Environmental Effects:	The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. DISPOSAL INFORMATION

Disposal Instructions:	All wastes must be handled in accordance with local, state, and federal regulations. Minimize exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers.
Contaminated Packaging:	Because emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near product container. Offer rinsed packaging material to local recycling facilities.
Waste Codes:	No information found.

14. TRANSPORT INFORMATION

DOT:

UN Number: UN1208

Proper Shipping Name: Hexanes

Hazard Class: 3

Packing Group: II

ERG Number: 128

Environmental Hazard Regulations: Non-environmentally hazardous according to the dangerous goods regulations.

Other Transport Precautions: No information found.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

Section 302: No ingredients listed.

Sections 311/312:

Hazard Category	List (Yes/No)
Section 311 – Hazardous Chemical	Yes
Immediate Hazard	Yes
Delayed Hazard	Yes
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

Section 313: n-Hexane: 60 wt%
Cyclohexane: 3 wt%

CERCLA Reportable Quantities: n-Hexane: Reportable Quantity: 5000 lb (2270 kg)
Cyclohexane: Reportable Quantity: 1000 lb (454 kg)

International Inventories:

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
Mexico	National Inventory of Chemical Substances (INSQ)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Türkiye	Chemical Inventory and Control Regulation	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s).

16. OTHER INFORMATION

Disclaimer: Rocky Mountain Reagents, Inc. provides the information in this Safety Data Sheet in the belief that it is reliable but assumes no responsibility for its completeness or accuracy. The physical properties reported in this SDS are obtained from literature and do not constitute product specifications. Rocky Mountain Reagents, Inc. makes and gives no representations or warranties with respect to the information contained herein or the product to which it refers, whether express, implied, or statutory, including without limitation, warranties of accuracy, completeness, merchantability, non-infringement, performance, safety, suitability, stability, and fitness for a particular purpose. No warranty against infringement of any patent, copyright or trademark is made or implied. This SDS is intended only as a guide to the appropriate handling of the material by a properly trained person. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. Accordingly, Rocky Mountain Reagents, Inc. assumes no liability whatsoever for the use of or reliance upon this information including results obtained, incidental or consequential damages, or lost profits.

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Reason for Revision: Not applicable.