

SAFETY DATA SHEET

Preparation Date: 2/4/2014

Revision Date: 2/27/2018

Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: H1776
Product Name: HEXANE, HPLC

Other means of identification

Synonyms: Hexyl hydride
n-Hexane
Dipropyl
CAS #: 110-54-3
RTECS # MN9275000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Reagent. Solvent. Cleaning agent for textile, furniture, and leather industries.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person: Martin LaBenz (West Coast)

Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

| | |
|--|-------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2B |
| Reproductive toxicity | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Aspiration toxicity | Category 1 |
| Flammable liquids | Category 2 |

Label elements

Danger

Hazard statements
Causes skin irritation

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



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if inhaled
Toxic to aquatic life with long lasting effects
May be harmful in contact with skin

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/.../equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label)

In case of fire: Use CO₂, dry chemical, or foam to extinguish.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % |
|------------|----------|----------|
| Hexane | 110-54-3 | 100 |

4. FIRST AID MEASURES

First aid measures

| | |
|------------------------|---|
| General Advice: | National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. |
| Skin Contact: | Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician. |
| Eye Contact: | Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. |
| Inhalation: | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention. |
| Ingestion: | Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary. |

Most important symptoms and effects, both acute and delayed

| | |
|-----------------|---|
| Symptoms | Causes eye irritation Causes skin irritation May cause central nervous system effects Inhalation of vapors may cause dizziness or suffocation Drowsiness It may affect the peripheral nervous system Paresthesia (numbness and tingling of the extremities) Weakness May affect respiration Aspiration hazard if swallowed - can enter the lungs and cause damage Aspiration into the lungs may cause chemical pneumonitis Aspiration into the lungs may cause pulmonary edema Headache Nausea Vomiting |
|-----------------|---|

Indication of any immediate medical attention and special treatment needed

| | |
|----------------------------|------------------------|
| Notes to Physician: | Treat symptomatically. |
|----------------------------|------------------------|

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO₂). Dry chemical. Water spray mist or foam.

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

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide

Hazardous Combustion Products: No information available.

Specific hazards: Extremely flammable. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Fire may produce irritating, corrosive and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not let this chemical enter the environment. Prevent entry into waterways, sewers, basements or confined areas. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use clean non-sparking tools to collect absorbed material. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents
Dinitrogen tetraoxide

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**National occupational exposure limits****United States**

| Components | CAS-No. | OSHA | NIOSH | ACGIH | AIHA WEEL |
|------------|----------|---|---|------------|-----------|
| Hexane | 110-54-3 | 500 ppm TWA 1800 mg/m ³ TWA | 50 ppm TWA 180 mg/m ³ TWA | 50 ppm TWA | None |

Canada

| Components | CAS-No. | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|------------|----------|---|---------------------------|------------------|-----------------|
| Hexane | 110-54-3 | 50 ppm TWA 176 mg/m ³ TWA | 20 ppm TWA | None | None |

Australia and Mexico

| Components | CAS-No. | Australia | Mexico |
|------------|----------|--|---|
| Hexane | 110-54-3 | 20 ppm TWA 72 mg/m ³ TWA | 50 ppm TWA 176 mg/m ³ TWA |

Appropriate engineering controls**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment**Personal Protective Equipment**

- Eye protection:** Goggles Safety glasses with side-shields
- Skin and body protection:** Chemical resistant apron
Long sleeved clothing
Gloves
- Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|--|---|---|
| Physical state: Liquid | Appearance: No information available. | Color: Clear. Colorless. |
| Odor: Gasoline-like. | Taste No information available. | Formula: C6-H14 |
| Molecular/Formula weight: 86.18 | Flammability: No information available | Flash point (°C): -22 |
| Flashpoint (°C/°F): -22 °C/ -7.6 °F | Flash Point Tested according to: Closed cup | Autoignition Temperature (°C/°F): 225 °C/437 °F |
| Lower Explosion Limit (%): 1.1% | Upper Explosion Limit (%): 7.5% | Melting point/range(°C/°F): -95 °C/-139 °F |
| Decomposition temperature(°C/°F): No information available | Boiling point/range(°C/°F): 68-69°C/154.4-156.2 °F | Bulk density: No information available |
| Density (g/cm3): No information available | Specific gravity: 0.66 | pH: No information available |
| Vapor pressure @ 20°C (kPa): 16.5 | Evaporation rate: No information available | Vapor density: 2.97 |
| VOC content (g/L): 660 | Odor threshold (ppm): 130 | Partition coefficient (n-octanol/water): 3.9 |
| Viscosity: No information available | Miscibility: Immiscible with water Miscible with alcohol Miscible with Chloroform Miscible with Ether Miscible with Acetone | Solubility: Insoluble in water |

10. STABILITY AND REACTIVITY

Reactivity

It can react vigorously, violently or explosively with oxidizers
Mixtures of Hexane and dinitrogen tetraoxide may explode at 28 deg C

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Oxidizing agents
Dinitrogen tetraoxide

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. When heated to decomposition it emits acrid smoke and irritating fumes.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Skin. Inhalation.

Acute Toxicity

Component Information

| | |
|---------|----------|
| Hexane | |
| CAS-No. | 110-54-3 |

LD50/oral/rat = = 25 g/kg Oral LD50 Rat

LD50/oral/mouse = 5000 mg/kg

LD50/dermal/rabbit = 3000 mg/kg Dermal LD50Rabbit

LD50/dermal/rat = = 3000 mg/kg Dermal LD50 = 48000 ppm Inhalation LC50 = 25 g/kg Oral LD50

LC50/inhalation/rat = 48000 ppm Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = 15000 mg/m³ 2 h

Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 25000 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 5000 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = 3000 mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = 48000 ppm (4-hr)

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = 1500 mg/m³ 2 h

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:

Contact causes skin irritation. Symptoms may include redness, increased blood flow, swelling, pain, itching, painful burning, followed by blister formation. It may be absorbed through the skin. If absorbed through skin it may cause systemic effects.

Eye Contact:

May cause slight irritation. Mild eye irritation.

Inhalation

May cause irritation of respiratory tract. Inhalation of high concentrations of vapors may cause dizziness or suffocation. May affect respiration (respiratory depression). Symptoms may include coughing and shortness of breath. It may cause pulmonary edema. May cause nausea, vomiting. May cause anorexia or weight loss. It may affect behavior/central nervous system (general anesthetic,

central nervous system depression, headache, lightheadedness, vertigo, confusion, memory loss, hallucinations, excitement, euphoria). May affect the peripheral nervous system (peripheral neuropathy, numbness of the extremities, muscle weakness, paralysis). May affect the brain. May cause cardiovascular system effects. May affect vision (blurred vision).

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause abdominal pain. Aspiration hazard if swallowed. Aspiration into the lungs can cause chemical pneumonitis. Aspiration may lead to pulmonary edema. May affect behavior/central nervous system (somnolence, ataxia).

Aspiration hazard Aspiration hazard. May be fatal if swallowed and enters airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated inhalation may affect metabolism (weight loss). Prolonged or repeated inhalation may affect the brain. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated ingestion may affect the liver. Prolonged or repeated ingestion may affect behavior/central nervous system. Prolonged or repeated inhalation or ingestion may affect the peripheral nervous system (weakness, paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles) generally of the hands and feet (extremities)). Prolonged or repeated inhalation or ingestion may affect the peripheral nervous system (muscle weakness, peripheral neuropathy with paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles) generally of the hands and feet (extremities)), paralysis). Prolonged or repeated inhalation may affect the spinal cord. Prolonged or repeated ingestion may affect the blood (changes in serum composition, leukopenia). Prolonged or repeated skin contact may cause dermatitis and defatting, dryness, and cracking of the skin. Skin changes such as coldness, redness, and roughness may occur.

Sensitization: No information available.

Mutagenic Effects: May affect genetic material
Animal experiments showed mutagenic effects

Carcinogenic effects: May cause cancer based on animal test data. Tumorigenic agent by RTECS criteria.

| Components | CAS-No. | IARC | ACGIH - Carcinogens | NTP | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|------------|----------|------------|---------------------|------------|------------------------|--|--|
| Hexane | 110-54-3 | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity Suspected of damaging fertility or the unborn child

Reproductive Effects: May cause adverse reproductive effects based on animal data
Possible risk of impaired fertility

Developmental Effects: May cause adverse developmental effects based on animal data
Teratogenic Effects: May cause birth defects (teratogenic effects) based on animal test data

Specific Target Organ Toxicity

STOT - single exposure Respiratory system. central nervous system.
STOT - repeated exposure central nervous system. Peripheral Nervous System (PNS).
Target Organs: Skin. Central nervous system. Peripheral nervous system. Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hexane - 110-54-3

Freshwater Fish Species Data: 2.1 - 2.98 mg/L LC50 Pimephales promelas 96 h flow-through 1

Water Flea Data: 1000 mg/L EC50 Daphnia magna 24 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

| Components | CAS-No. | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|------------|----------|------------------------|------------------------|------------------------|------------------------|
| Hexane | 110-54-3 | None | None | None | None |

14. TRANSPORT INFORMATION

DOT

UN-No: UN1208
Proper Shipping Name: Hexanes
Hazard Class: 3
Subsidiary Class No information available
Packing group: II
Emergency Response Guide Number No information available
Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions No Information available
Symbol(s): [DOT]: (R5) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 5000 pounds (2270 Kilograms).
Description: UN1208,Hexanes ,3,,PG II

TDG (Canada)

UN-No: UN1208
Proper Shipping Name: Hexanes

Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: II
Marine Pollutant Description: No Information available
 HEXANES,3,UN1208,PG II

ADR

UN-No: UN1208
Proper Shipping Name: Hexanes
Hazard Class: 3
Packing Group: II
Subsidiary Risk: No information available
Description: UN1208 Hexanes,3,II

IMO / IMDG

UN-No: UN1208
Proper Shipping Name: Hexanes
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: II
Marine Pollutant EMS: No information available
 F-E

RID

UN-No: UN1208
Proper Shipping Name: Hexanes
Hazard Class: 3
Subsidiary Risk: 3
Packing Group: II
Description: UN1208 Hexanes,3,II,RID

ICAO

UN-No: UN1208
Proper Shipping Name: Hexanes
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: II
Description: Hexanes,3,UN1208,PG II

IATA

UN-No: UN1208
Proper Shipping Name: Hexanes
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: II
ERG Code: 3H
Special Provisions Description: No information available
 UN1208,Hexanes,3,PG II

15. REGULATORY INFORMATION

International Inventories

| Components | CAS-No. | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | CHINA | Australia (AICS) | EINECS-No. |
|------------|----------|---------------|------------------|---------------------|---------------|---------|------------------|-------------------|
| Hexane | 110-54-3 | PresentACTIVE | Present KE-18626 | Present | Present (2)-6 | Present | Present | Present 203-777-6 |

U.S. Regulations

Hexane

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 1340

New Jersey (EHS) List: 1340 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

1 lb RQ

Louisiana Reportable Quantity List for Pollutants: 5000lbRQapplies to unauthorized emissions based on total mass emitted into or onto all media within any consecutive 24-hour period

1000lbRQapplies to unauthorized emissions based on total mass emitted into the atmosphere

FDA - Direct Food Additives 21 CFR 173.270

FDA - 21 CFR - Total Food Additives 172.340, 172.560, 173.270, 175.105, 175.320, 176.200, 177.1200, 73.295, 73.30, 73.300, 73.315, 73.345, 73.615

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

WARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

| Components | CAS-No. | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|------------|----------|------------|------------------------|----------------------------|-------------------------------|
| Hexane | 110-54-3 | Not Listed | Not Listed | male reproductive toxicity | Not Listed |

CERCLA/SARA

| Components | CAS-No. | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|------------|----------|---|---|--|---------------------------------|------------------------------------|
| Hexane | 110-54-3 | 5000 lb final RQ 2270 kg final RQ | None | None | None | 1.0 % de minimis concentration |

U.S. TSCA

| Components | CAS-No. | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|------------|----------|---|--|
| Hexane | 110-54-3 | Not Applicable | Not Applicable |

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Hexane
110-54-3 (100)

WHMIS 2015 Hazard Classification
Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation.; Reproductive Toxicity - Category 2: H361 Suspected of damaging fertility or the unborn child.; Specific target organ toxicity - Single exposure - Category 3: H336 May cause drowsiness or dizziness.; Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated exposure.; Aspiration hazard - Category 1: H304 May be fatal if swallowed and enters airways.

Canada Hazardous Products Regulation

Product code: H1776

Product name: HEXANE, HPLC

This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

B2 Flammable liquid
D2A Very toxic materials
D2B Toxic materials

Components

Hexane

WHMIS 1988

B2,D2A,D2B

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

| Components | WHMIS Ingredient Disclosure List - |
|------------|------------------------------------|
| Hexane | 1 % |

Inventory

| Components | CAS-No. | Canada (DSL) | Canada (NDSL) |
|------------|----------|--------------|---------------|
| Hexane | 110-54-3 | Present | Not Listed |

| Components | CAS-No. | CEPA Schedule 1 - Toxic Substances |
|------------|----------|---|
| Hexane | 110-54-3 | Not listed |
| Components | CAS-No. | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| Hexane | 110-54-3 | Not listed |

EU Classification

EU GHS - SV - CLP 1272/2008

| Components | CAS-No. | EU GHS - SV - CLP (1272/2008) |
|------------|----------|---|
| Hexane | 110-54-3 | Flammable liquids - Flam. Liq. 2: H225 Highly flammable liquid and vapour.; Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Reproductive Toxicity - Repr. 2: H361f Suspected of damaging fertility. (Hazard statements H360 and H361 indicate a general concern for effects on both fertility and development: May damage/Suspected of damaging fertility or the unborn child; According to the criteria, the general hazard statement can be replaced by the hazard statement indicating the specific effect of concern in accordance with section 1.1.2.1.2; When the other differentiation is not mentioned, this is due to evidence proving no such effect, inconclusive data or no data and the obligations in Article 4(3) shall apply for that differentiation); Specific target organ toxicity - Single exposure - STOT SE 3: H336 May cause drowsiness or dizziness.; Specific target organ toxicity - Repeated exposure - STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (C >= 5 %; Minimum classification; No information to prove exclusion of certain routes of |

| | | |
|--|--|---|
| | | exposure); Aspiration hazard - Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.; Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.601-037-00-0 Specific target organ toxicity - Repeated exposure - STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (C >= 5 %; Minimum classification; No information to prove exclusion of certain routes of exposure)601-037-00-0 |
|--|--|---|

EU - CLP (1272/2008)

R-phrases(s)

- R11 - Highly flammable.
- R38 - Irritating to skin.
- R62 - Possible risk of impaired fertility.
- R65 - Harmful: may cause lung damage if swallowed.
- R67 - Vapors may cause drowsiness and dizziness.
- R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S -phrase(s)

- S 9 - Keep container in a well-ventilated place.
- S16 - Keep away from sources of ignition - No smoking.
- S29 - Do not empty into drains.
- S33 - Take precautionary measures against static discharges.
- S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
- S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- S36/37 - Wear suitable protective clothing and gloves.

| Components | CAS-No. | Classification | Concentration Limits: | Safety Phrases |
|------------|----------|---|-----------------------|------------------------------|
| Hexane | 110-54-3 | F; R11 Xi; R38 N; R51-53 Repr.Cat.3; R62 Xn; R65-48/20 R67 | 5%<=C Xn; R48/20 | S: 9-16-29-33-61-62-36/37 |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

- F - Highly flammable.
- Xn - Harmful.
- N - Dangerous for the environment.



16. OTHER INFORMATION

Preparation Date: 2/4/2014
Revision Date: 2/27/2018
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet