TULSTAR PRODUCTS, INC.
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MATERIAL SAFETY DATA SHEET

COMPANY INFORMATION

Company Name:	**TULSTAR PRODUCTS, INC.** 5510 S. Lewis Ave. Tulsa, OK 74105
Phone Number:	(918) 749-9060
Fax Number:	(918) 747-1444
Email Address:	tulstar@tulstar.com
Emergency Number:	CHEMTREC 800-424-9300 (24 hours)

IDENTIFICATION

Product Name:	Hexane
Formula:	Mixture
Chemical Family:	Aliphatic Hydrocarbon
CAS Number:	68410-97-9
Synonyms:	Normal Hexane, Hexane, Light hydrotreated distillate
Intended Use:	Solvent

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Specification & CAS Number	Weight % in Product *	ACGIH TLV (TWA)	ACGIH Short Term Exposure Limit	ACGIH Ceiling Limits	ACGIH Skin Designation	OSHA Final PEL (TWA)	OSHA Final PEL Ceiling Limits	OSHA Final PEL Skin Notation
Hydrotreated light distillate 68410-97-9 includes:	100 %	NE	NE	NE	NE	NE	NE	NE
Methylpentanes	24 %	500 ppm for Hexane Isomers	NE	NE	NE	NE	NE	NE
Dimethylbutanes	1 %	500 ppm for Hexane Isomers	NE	NE	NE	NE	NE	NE
Hexane 110-54-3	> 60 %	50 ppm	NE	NE	Yes	500 ppm; 1800 mg/m^3	NE	NE
Methylcydopentane 96-37-7	13 %	NE	NE	NE	NE	NE	NE	NE

* 1 % = 10,000 ppm

FIRST AID MEASURES

Eye Contact:	Flush eyes with running water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.
Skin Contact:	Immediately wash skin with soap and water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.
Inhalation:	Remove from exposure. If breathing is difficult, give oxygen. If breathing ceases, administer artificial respiration followed by oxygen. Seek immediate medical attention.
Ingestion:	DO NOT induce vomiting. Seek immediate medical attention.
Notes to Physician:	Gastric lavage using a cuffed endotracheal tube my be performed at your discretion.

FIRE FIGHTING MEASURES

Flash Point: -15°F (-26°C)
Flash Point Method: TCC, ASTM D56
Ignition Temperature: 437°F (225°C)
Flammable Limits (% by Volume in Air):
Lower Exposure Limit⇒ 1.2
Upper Exposure Limit⇒ 7.7
Fire Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam
Fire Fighting Procedures: Evacuate area and fight fire from a safe distance. Use NIOSH approved self-contained breathing apparatus and other protective equipment and/or garments if conditions warrant. Shut off source, if possible. Use water spray to cool nearby containers and structures exposed to fire. Do not spray water directly on fire – product will float and could be reignited on surface of water.
Fire & Explosion Hazards: Carbon oxides formed when burned. Highly flammable vapors are heavier than air may accumulate in low areas and/or spread along ground away from handling site. Flash back along vapor trail is possible.

ACCIDENTIAL RELEASE MEASURES

Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments. Protect from ignition. Keep out of water sources and sewers. Absorb in a dry, inert material (sand, clay, etc.). Transfer to disposal drums using non-sparking equipment.

HANDLING & STORAGE

DO NOT get in eyes, on skin, or on clothing. DO NOT breath vapor, mist, fume or dust. DO NOT swallow. May be aspirated into lungs. Wear protective equipment and/or garments if exposure conditions warrant. Wash thoroughly after handling. Immediately remove and launder contaminated clothing before reuse. Use only with adequate ventilation.

Keep way from heat, sparks, and flame. Store in well-ventilated area. Store in tightly closed container. Bond and ground during transfer.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: If splash hazards are present use chemical goggles and a face shield.
Respiratory Protection: For concentrations exceeding an applicable exposure limit, use NIOSH approved air-purifying respirator equipped with organic vapor cartridges.
Air purifying respirators should not be used in:
- ⇒ Situations that exceed the maximum use concentrations of the respirator or air-purifying element established by regulatory standards.
- ⇒ Atmospheres containing less than 19.5 percent oxygen.
- ⇒ Atmospheres immediately dangerous to life or health (IDLH).

When entering or exiting from areas where the exposure concentration is unknown or if conditions immediately dangerous to life or health (IDLH) exist, use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode.
Skin Protection: Use gloves resistant to the material(s) contained in this product. (Nitrile, Polyvinyl Alcohol or Viton) Use full-body garments resistant to the materials contained in this product to prevent skin contact. Suggestions for the use of specific manufacturers to confirm the performance of their products.
Ventilation: Use adequate ventilation to control concentrations below applicable exposure limits.
Other Personal Protection: Personal protection information shown in this section is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.
Exposure Limits: No known applicable information.

PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Colorless
Odor:	Mild
Odor Threshold:	Unknown (ppm)
Boiling Point:	151 - 157°F (66 - 69°C)
Melting Point:	Not Established
Freezing Point:	Not Established
Vapor Pressure:	5.5 psia @ 100°F (38°C)
Vapor Density:	Approx. 3 (Air = 1)
Specific Gravity:	0.676 @ 60/60°F (15.6/15.6°C) [@ 20°C Water = 1]
% Volatile by Volume:	100
Evaporation Rate:	8.1 (Butyl Acetate = 1)
Water Solubility:	Negligible
Viscosity:	Approx. 0.4 cSt @ 100°F (38°C)

STABILITY & REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will Not Occur
Incompatibility:	Oxygen and strong oxidizing agents (materials to avoid).
Hazardous Decomposition Products:	Carbon oxides formed when burned.

DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

REGULATORY INFORMATION

Hydrotreated Light Distillate 100% 68410-97-9
Regulated Substance on TSCA Inventory: Listed
Canada - Domestic Substance List: Listed

Methylpentanes 24%
Regulated Substance on TSCA Inventory: Listed
Canada - Domestic Substance List: Listed

Hexane > 60% 110-54-3
Section 313 of Title III of the SARA & 40 CFR Part 372: Listed
Regulated Substance on TSCA Inventory: Listed
Canada - Domestic Substance List: Listed

Methylcyclopentane: 13% 96-37-7
Regulated Substance on TSCA Inventory: Listed
Canada - Domestic Substance List: Listed

WHMIS Hazard Class: Class B – Flammable and combustible material. Class D, Division 2 Poisonous and Infectious material: Other toxic effects.
Additional Information: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.
EPA SARA 311/312 (Title III Hazard Categories):

Acute Health⇒	Yes
Chronic Health⇒	Yes
Fire Hazard⇒	Yes
Pressure Hazard⇒	No
Reactivity Hazard⇒	No

TRANSPORTATION INFORMATION

DOT Shipping Description:	Hexanes, 3, UN1208, II, RQ*
Non-Bulk Package Marking:	Hexanes, UN1208
Bulk Package Placard/Marking:	Flammable / 1208
Hazardous Substance/RQ:	Hexanes / 5000 lbs
Packaging References:	49 CFR 173.150, 173.202, 173.242
Additional Remarks:	* When over 5000 lbs Hexane

IMDG Shipping Description:	Hexanes, 3.1, UN1208, II, RQ (over 500 lb of Hexane)
Non-Bulk Package Marking:	Hexanes, UN1208
Bulk Package Placard/Marking:	Flammable / 1208

ICAO/IATA Proper Shipping Name:	Hexanes
ICAO/IATA Hazard Class:	3
UN/ID Number:	UN1208
Packing Group:	II
Subsidiary Risk:	None
Non-Bulk Package Marking:	Hexanes, UN1208