

SAFETY DATA SHEET – P.I.P. Inc.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : 390-PCVCP1
Date : May 2015
Synonym : Cetane
Chemical Name : Hexadecane, Technical Grade
Company : Protective Industrial Products
968 Albany Shaker Road
Phone: (800) 262-5755

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards

GHS Classification

Aspiration Hazard (Category 1)

Acute Toxicity (Category 5)

GHS Label Elements, Including Precautionary Statements:

Pictogram



Signal Word

Warning

Hazard Statement(s)

H304 May be fatal if swallowed and enters airways.

Precautionary Statement(s)

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331 Do NOT induce vomiting

Other Hazards

Repeated exposure may cause skin dryness or cracking.

HMIS Classification

Health Hazard: 1

Flammability: 1

Physical Hazards: 0

NFPA Rating

Health Hazard: 1

Fire: 1

Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed. Aspiration hazard – can enter lungs and cause damage.

Safety Data for P.I.P. Inc.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula:	C16H34		
Molecular Weight:	226.44 g/mol		
Component:	Hexadecane, Technical Grade		
	CAS Number:	EC Number:	Concentration:
	544-76-3	208-878-9	92-95%
	n-Tetradecane		
	CAS Number:	EC Number:	Concentration:
	629-59-4	211-096-0	<4%
	n-Octadecane		
	CAS Number:	EC Number:	Concentration:
	593-45-3	209-790-3	<4%

4. FIRST AID MEASURES

General advice:	Consult a physician. Show this safety data sheet to doctor in attendance.
If inhaled:	Move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact:	Wash with soap and plenty of water.
In case of eye contact:	Flush eyes with water as a precaution.
If swallowed:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIREFIGHTING MEASURES

Extinguisher Media: Use CO2, alcohol resistant foam or dry chemicals.
Special Remarks on Fire Hazards: Material will float on water. Use of water may spread fire.
Special Remarks on Explosion Hazards: None.
Special Hazards Arising from the Substance or Mixture: Carbon Oxides.
Advice for Firefighters: Wear SCBA for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal in accordance with local/national regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
Conditions for Safe Storage: Keep container tightly closed in a dry and well ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Hygroscopic, handle and store under inert gas.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Safety Data for P.I.P. Inc.

Hand Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Face Protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless liquid above 65°F. Cloudy white below 65°F.

Odor: Odorless

Melting Point: < 64°F

Ignition Temperature: >400°F

Boiling Point: 582°F

Flash Point: 275°F

Vapor Pressure (mm Hg): 1mm/222°F

Density (H₂O = 1): .773 g/cm³

Water Solubility: Insoluble

Partition Coefficient: log Pow: 8.2 at 77°F

Relative Vapor Density: 7.82 (Air = 1.0)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Instability Temperature: Not available.

Materials to Avoid: Strong oxidizing agents.

Conditions to Avoid: Ignition sources (flames, sparks, etc.)

Hazardous Decomposition Products: Fire conditions – carbon oxides.

Corrosivity: Not available.

Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: Rat - > 5,000 mg/kg.

Inhalation LC50: No data available.

Dermal LD50: Rabbit - > 3,160 mg/kg.

Skin Corrosion/Irritation: Rabbit – no skin irritation (OECD Test Guideline 404).

Serious Eye Damage/Irritation: Rabbit – no eye irritation (OECD Test Guideline 405).

Respiratory or Skin Sensitization: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to .1% is identified as probably, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to .1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to .1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to .1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: No data available.

Teratogenicity: No data available.

Specific Target Organ Toxicity – Single Exposure (GHS): No data available.

Specific Target Organ Toxicity – Repeated Exposure (GHS): No data available.

Safety Data for P.I.P. Inc.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Synergistic Effect: No data available.

Additional Information: RTECS – not available.

12. ECOLOGICAL INFORMATION

Toxicity: Toxicity to fish: LC50 – fish - > 1,028 mg/l – 96 h

Persistence and Degradability: Readily biodegradable.

Bioaccumulative Potential: Salmo salar (Atlantic Salmon) – 7 d; BCF – 5.6

Mobility in Soil: No data available.

PBT and vPvB Assessment: No data available.

Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US): Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

15. REGULATORY INFORMATION

OSHA Hazards: No known OSHA hazards.

DSL Status: All components of this product are on the Canadian DSL.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA, Title III, Section 313.

Europe REACH: On the inventory, or in compliance with the inventory.

USA TSCA: On the inventory, or in compliance with the inventory.

Australia AICS: On the inventory, or in compliance with the inventory.

New Zealand NAIoC: On the inventory, or in compliance with the inventory.

Japan ENCS: On the inventory, or in compliance with the inventory.

Korea KECI: On the inventory, or in compliance with the inventory.

Philippines PICCS: On the inventory, or in compliance with the inventory.

China IECSC: On the inventory, or in compliance with the inventory.

Massachusetts Right to Know Components: No components are subject to the MA Right to Know Act.

Pennsylvania Right to Know Components: Hexadecane: CAS 544-76-3.

New Jersey Right to Know Components: Hexadecane: CAS 544-76-3.

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

16. OTHER INFORMATION

None