



# MATERIAL SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME</b>	UNIPAR® IP 170 PC	
<b>SYNONYM</b>	Isoalkanes; Aliphatic hydrocarbon; Isoparaffins	
<b>CHEMICAL FAMILY</b>	Petroleum Hydrocarbon	
<b>COMPANY IDENTIFICATION</b>	UniSource Energy, Inc. 40 Shuman Blvd, Suite 290 Naperville, IL 60563 Phone: 630-470-6030 Fax: 630-470-6031	
<b>EMERGENCY TELEPHONE NUMBERS</b>	UniSource Energy, Inc. 1-800-444-5510	CHEMTREC 1-800-424-9300

## SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number	Material or Component	% By Weight
68551-19-9	C12-14 ISOALKANES	100

## SECTION 3 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

COMBUSTIBLE LIQUID AND VAPOR  
MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT  
HARMFUL IF SWALLOWED OR INHALED  
ASPIRATION HAZARD IF SWALLOWED – CAN ENTER LUNGS AND CAUSE DAMAGE

**ROUTES OF ENTRY:** Absorbed through dermal contact, eye contact, inhalation, ingestion

### POTENTIAL ACUTE HEALTH EFFECTS

**Eyes:** May be irritating to the eyes and could cause prolonged (days) impairment of vision depending on amount of material that gets into eye and thoroughness of first aid treatment.  
**Skin:** May be irritating to the skin. Prolonged unprotected exposure may cause drying and defatting.  
**Inhalation:** Breathing of high vapor concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness.  
**Ingestion:** Swallowing this material may be harmful. May cause irritation of the mouth, throat and gastrointestinal tract. Aspiration into lungs may result in chemical pneumonia and lung damage.

### POTENTIAL CHRONIC HEALTH EFFECTS

**Carcinogenic Effects**  
Not listed by NTP, IARC, OSHA or ACGIH as carcinogenic

### MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE

Personnel with pre-existing skin disorders should avoid contact with this product.  
Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. Exposure to liquids, vapors, mists or fumes should be minimized.

(See Toxicological Information – Section 11)

## SECTION 4 FIRST AID MEASURES

**EYE CONTACT:** Flush thoroughly with water while holding eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. If irritation occurs, get immediate medical attention.

**SKIN CONTACT:** Wash contact areas immediately with soap and water. Remove contaminated clothing and place in closed container for storage until laundered or discarded. Thoroughly clean contaminated clothing before reuse.

**INHALATION:** Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.



**INGESTION:** DO NOT induce vomiting; aspiration into lungs may cause chemical pneumonia and lung damage. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor for breathing difficulty. Seek immediate medical attention.

**NOTES TO PHYSICIAN:** Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

## SECTION 5 FIRE FIGHTING MEASURES

**FLAMMABILITY CLASS:** Combustible

**FLASH POINT:** 79.4°C (174.9°F) (Tag Closed Cup)

**AUTO-IGNITION TEMPERATURE:** 230°C (446°F)

**FLAMMABLE LIMITS:** NDA UPPER: NDA

**PRODUCTS OF COMBUSTION:** May produce incomplete combustion products (CO, CO<sub>2</sub>)

### EXTINGUISHING MEDIA

Use water fog or spray, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

### FIRE FIGHTING INSTRUCTIONS

Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply. Use water spray to cool fire exposed surfaces and to protect personnel.

**Small Fire:** Use DRY chemical powder, halon and CO<sub>2</sub>.

**Large Fire:** Use water spray, fog or foam. DO NOT use water jet.

### PROTECTIVE CLOTHING (FIRE)

Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear (Bunker gear).

### NFPA HAZARD ID

Health: 1      Fire Hazard: 1      Reactivity: 0      Special Notice: None

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### NOTIFICATION PROCEDURES

U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required.

### PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding area. Eliminate all (potential) sources of ignition in the vicinity of the spill or released vapor. Handling equipment must be grounded to prevent sparking.

### SPILL MANAGEMENT

**Land Spill:** Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if it can be done without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Water Spill:** Stop leak if it can be done without risk. Confine the spill immediately with booms. Warn other vessels. Remove from the surface by skimming or with suitable absorbents. Report spills as required to appropriate authorities. Seek the advice of a specialist before using dispersants.

### ENVIRONMENTAL PRECAUTIONS

**Large Spills:** Contain spill and safely stop the flow, warning personnel to stay away. Eliminate all sources of ignition and ventilate. Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas. Water spray may reduce vapor, but may not prevent ignition in closed spaces. Recover with appropriate pumping equipment or with suitable absorbent.

**Small Spills:** Absorb with an inert material such as clay or sand. Place in appropriate non-leaking container. Seal tightly for proper disposal.

**Note:** Local regulations may prescribe or limit action to be taken.

## SECTION 7 HANDLING AND STORAGE

### PRECAUTIONARY MEASURES

Liquid evaporates and forms vapor (fumes) that can catch fire and burn with explosive force. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, electric motors and switches. Fire hazard is greater as liquid temperature rises above 85°F.

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To



minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, ("Flammable and Combustible Liquids, Recommended Practice on Static Electricity", NFPA '77) and/or API Recommended Practice 2003 ("Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents").

### HANDLING

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire or explosion. Use non-sparking tools. Keep away from incompatibles such as oxidizing agents. Do not attempt to refill or clean containers since residue is difficult to remove. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Do not eat, drink or smoke in areas of use or storage. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately, showing them the container or the label. Avoid contact with skin and eyes. Use good personal hygiene practices. Wash thoroughly after handling this product.

### STORAGE

Combustible materials should be stored in a separate labeled safety storage cabinet or room. Keep away from heat and all possible sources of ignition. Keep container tightly closed and dry. Keep in a cool and well-ventilated area. Ground all equipment containing material. Do not pressure to empty container or it may rupture with explosive force. Empty containers may contain material residue; do not reuse without adequate precautions. Do not eat, drink or smoke in areas of use or storage. All efforts should be made to prevent any leaks or spills. Storage tanks containing this product should be engineered to prevent contact with water resources, as this material could contaminate the water resources. Surface spills can reach groundwater through porous soil or cracked surfaces. The storage tanks should be monitored regularly for leaks. Where spills or leaks are possible, a comprehensive response plan should be developed and implemented.

## SECTION 8

## EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### PERSONAL PROTECTION

**Eyes:** Safety glasses with side shields

**Body:** Impervious protective clothing to prevent skin contact (gloves, aprons, boots, complete facial protection)

**Respiratory:** Use a MSHA/NIOSH approved respirator or equivalent at high concentrations

**Hands:** Chemical resistant gloves if contact is possible

**Feet:** Safety slip-proof shoes in areas where spills or leaks can occur

### PROTECTIVE CLOTHING

Splash goggles, Boots, Gloves, Apron

### THRESHOLD LIMIT VALUE

The best practice is to maintain concentrations of all atmospheric contaminants as low as practical using engineering controls and work rules. Appropriate personal protective equipment may be used for additional protection of the worker from exposure. For application of TLV's or PEL's consult an industrial hygienist.

Material or Component	Exposure Limits
C12 – 14 ISOALKANES	CPCHEM 1200 mg/m <sup>3</sup>
C12-14 ISOALKANES	ACGIH: Not Established

Consult local authorities for acceptable exposure limits.

## SECTION 9

## PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE AND APPEARANCE:** Colorless liquid at room temperature

**ODOR:** Mild hydrocarbon

**COLOR:** Colorless

**BOILING RANGE:** 217 - 246°C ( 422.6 – 474.8°F)

**SPECIFIC GRAVITY:** 0.78 @ 15.6°C (60°F)

**VISCOSITY:** 2.6 cSt @ 38°C (100°F)



**VAPOR PRESSURE:** 0.7 mm Hg @ 38°C (100°F)

**VAPOR DENSITY:** > 3 (Air = 1)

**SOLUBILITY IN WATER:** Negligible

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY AND REACTIVITY:** The product is stable under normal conditions.

**CONDITIONS TO AVOID:** Not Applicable

**INCOMPATIBILITY WITH VARIOUS SUBSTANCES:** Reactive/ incompatible oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** May produce incomplete combustion products (COx)

**HAZARDOUS POLYMERIZATION:** No

## SECTION 11 TOXICOLOGICAL INFORMATION

**ROUTES OF EXPOSURE:** Inhalation, ingestion, skin, eye contact

### ACUTE AND CHRONIC TOXICITY

**Acute Oral Toxicity:** LD50: > 5.0 g/kg [Rat]

**Acute Dermal Toxicity:** LD50: > 2.0 g/kg [Rabbit]

**Acute Inhalation Toxicity:** LC50: > 5.3 mg/l [Rat]

### OTHER TOXICOLOGICAL DATA

**Repeated Dose Toxicity:** 4 wks/ rhesus monkey / Doses: 0, or 654 ppm / 6 hrs/day,  
3 days/wk / NOAEL = 654 ppm

**Genetic Toxicity:** Ames test – Negative; Mouse lymphoma assay – negative; sister chromatid exchange in CHO cells - negative

## SECTION 12 ECOLOGICAL INFORMATION

**ECOTOXICITY:** Not expected to be harmful to aquatic organisms

**SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION:** Constituents are expected to be readily biodegradable.

## SECTION 13 DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL

Disposal can occur only in properly permitted facilities in accordance with federal, state and local regulations.

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete. This material, when discarded or disposed of, may be a hazardous waste according to Federal Regulations (40 CFR 261). Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the material to characterize and determine, at the time of disposal, whether the material is a hazardous waste subject. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authorities.

**Consult your local or regional authorities.**

## SECTION 14 TRANSPORT INFORMATION

### U.S. DOT CLASSIFICATION FOR BULK SHIPMENTS

**Proper Shipping Name:** UN 3295, Hydrocarbons, liquid, n.o.s., Combustible Liquid, III

**UN/NA Number:** UN 3295

**Packing Group:** III

**ICAO/IATA/IMO/IMDG/RID/ADR:** Not regulated

**SECTION 15****REGULATORY INFORMATION**

**WHMIS CLASSIFICATION:** Class B, Division 3: Combustible Liquids

**U.S. FEDERAL REGULATIONS**

**TSCA:** All components are listed or exempted.

**SARA 311/312**

The following chemicals in this product require reporting under the requirements of 40 CFR 370, Hazardous Chemical Reporting: Community Right-To-Know. The hazard category for each chemical is also listed.

Chemical Name	Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
C10-C13 ISOALKANES	X	-	X	-	-

**INTERNATIONAL REGULATIONS****EUROPE**

Classification and labeling according to Directive 67/548/EEC:

Xn: Harmful

S62: If swallowed do not induce vomiting: seek medical advice immediately and show this container to label.

R65: Harmful – May cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapors may cause drowsiness and dizziness.

**INTERNATIONAL INVENTORY LISTS**

**Australia Inventory (AUS):** All components are listed or exempted.

**Canada Inventory (DSL):** All components are listed or exempted.

**China Inventory (IECSC):** All components are listed or exempted.

**EU Inventory (EINECS):** All components are listed or exempted.

**Japan Inventory (ENCS):** All components are listed or exempted.

**Korea Inventory (ECL):** All components are listed or exempted.

**Philippines Inventory (PICCS):** All components are listed or exempted.

**SECTION 16****OTHER INFORMATION****REVISIONS**

This Material Safety Data Sheet (MSDS) has been created to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-1998).

**DATE PREPARED: MARCH 2011**

**UNIPAR® IP 170 PC**

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