



SAFETY DATA SHEET

SECTION 1.0	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier

UNIPAR® IP 105 PC

Other means of identification

Isoparaffin, Aliphatic Hydrocarbon, Isoalkane

Recommended use (identified)

Industrial solvent, process fluid

Manufacturer/Importer/Supplier/Distributor InformationUNISOURCE-ENERGY, LLC
40 Shuman Blvd, Suite 290
Naperville, IL 60563**E-mail**

orders@unisource-energy.com

Telephone number

Phone: 630-470-6030 Fax: 630-470-6031

Emergency telephone numberUNISOURCE-ENERGY, LLC
1-800-444-5510CHEMTREC
1-800-424-9300

SECTION 2.0	HAZARD(S) IDENTIFICATION
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OSHA/HCS statusFlammable Liquid, Category 3
Aspiration hazard, Category 1
Skin irritation, Category 3**GHS label elements****Signal word**

Danger



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Hazard statement

Flammable liquid and vapor
 May be fatal if swallowed and enters airways
 Causes mild skin irritation

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces – NO SMOKING.
 Take precautionary measures against static discharge.
 Wear protective gloves/eye protection/face protection.

Response

IF SWALLOWED: Immediately call a Poison Center or doctor/physician.
 Do NOT induce vomiting.
 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.

Storage

Store in well ventilated place. Keep cool.
 Store locked up.

Disposal

Disposal of contents/container to an approved waste disposal plant.

SECTION 3.0

COMPOSITION/INFORMATION ON INGREDIENTS

Other means of identification

Isoparaffin, Aliphatic Hydrocarbon, Isoalkane

CAS number/other identifiers

Ingredient Name	%	CAS number
Alkanes, C ₉ -- C ₁₁ Iso	100	68551-16-6

SECTION 4.0

FIRST AID MEASURES

Description of necessary first aid measures

General advice

Move out of dangerous area. Show this Safety Data Sheet to the Doctor in attendance.
 Symptoms of poisoning may only appear several hours later. Do not leave the victim unattended.

Eye contact

Flush eyes with water as a precaution. Remove contact lenses.. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.



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Inhalation

If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Skin contact

If skin irritation persists, call a physician. If on the skin, rinse well with water. If on clothes, remove clothes.

Ingestion

Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5.0	FIRE-FIGHTING MEASURES
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Suitable extinguishing media

Alcohol resistant foam, Carbon dioxide (CO₂), Dry Chemical

Unsuitable extinguishing media

High volume water jet

Specific hazards arising from the chemical

Do not allow run off from firefighting to enter drains or water courses.

Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further Information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance to local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

Fire and explosion protection

Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition or organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition products

Carbon Dioxide, carbon oxides

SECTION 6.0	ACCIDENTAL RELEASE MEASURES
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Personal precautions

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.



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Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage, if safe to do so. If product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

SECTION 7.0

HANDLING AND STORAGE

Handling

Advice for safe handling

Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see Section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharge. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion

Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition or organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and well ventilated place. Containers which are open must be carefully resealed and keep upright to prevent leakage. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards.

SECTION 8.0

EXPOSURE CONTROLS/PERSONAL PROTECTION

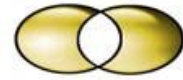
Personal protective equipment

Hand protection

The suitability for a specific workplace should be discussed with the producers of the protective gloves

Eye protection

Eye wash bottle with pure water. Tightly fitting safety goggles.



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Skin and body protection

Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the workplace. Workers should wear antistatic footwear.

Hygiene measures

When using do not eat, drinking or smoke. Wash hands before breaks and at the end of workday.

SECTION 9.0	PHYSICAL AND CHEMICAL PROPERTIES
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Form	Liquid
Physical state	Liquid
Color	Colorless at room temperature
Odor	Mild Hydrocarbon
pH	Not applicable
Molecular formula	UVCB
Melting point/freezing point	No data available
Initial boiling point and boiling range	148.8 – 176.7 °C (299.8 – 350.1 °F)
Flash point	39.4 °C (102.9 °F) Tag Closed Cup
Percent volatile	>99 %
Evaporation Rate	1
Lower and upper explosive (flammable) limits	No data available
Vapor pressure	6.18 mmHg at 38 °C (100 °F)
Oxidizing properties	No
Relative vapor density	4.5 (Air = 1.0)
Relative density	0.75 at 15.6 °C (60.1 °F)
Water Solubility	Negligible
Partition coefficient n-octanol/water	No data available
Auto-ignition temperature	336 °C (637 °F)
Viscosity, kinematic	1.1 cSt at 38 °C (100 °F)

SECTION 10.0	STABILITY AND REACTIVITY
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Chemical stability

This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure

Conditions to avoid



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Heat, sparks, fire and oxidizing agents

Incompatible materials

May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Other data

No decomposition if stored and applied as directed.

SECTION 11.0	TOXICOLOGICAL INFORMATION
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Irritation/Corrosion

Skin

May cause skin irritation and/or dermatitis
May degrease the skin

Eyes

No eye irritation
Vapors may cause irritation to the eyes, respiratory system and the skin

Aspiration hazard

May be fatal if swallowed and enters airways.
Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

Information on the likely routes of exposure

C ₉ – C ₁₁ Isoalkanes			
Toxicity	Species		
Acute oral	Rat	LD ₅₀	34,600 mg/kg
Acute inhalation	Rat	Exposure Time Test atmosphere	>12.4 mg/l 4 hr. Dust/mist
Acute dermal	Rabbit	LD ₅₀	15,400 mg/kg
Repeated dose	Rat	Application Route Dose Exposure time Number of exposures NOEL	Inhalation 0, 314, 922 ppm 12 wk. 6 h/d, 5 d/wk. >922 ppm
Teratogenicity	Rat	Application Route Dose Test period NOAEL Teratogenicity NOAEL Maternal	Inhalation 0, 291, 817 ppm GD 6 - 15 >817 ppm >817 ppm



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Carcinogenicity

IARC

No ingredient of this product present at levels greater than to equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC

NTP

No ingredient of this product present at levels greater than to equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by NTP

ACIGH

No ingredient of this product present at levels greater than to equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by ACIGH

SECTION 12.0	ECOLOGICAL INFORMATION
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Ecotoxicity

C₉ – C₁₁ Isoalkanes		
Species		
Oncorhynchus mykiss (rainbow trout)	LC ₅₀	1,000 mg/l
	Exposure time	96 hours
Daphnia magna (water flea)	LC ₅₀	1,000 mg/l
	Exposure time	48 hours

Biodegradability

Expected to be biodegradable

Ecotoxicology Assessment

No further ecological information available

SECTION 13.0	DISPOSAL CONSIDERATIONS
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Disposal instructions

The information in this SDS pertains to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40CFR261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.



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Product

Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging

Empty remaining contents. Disposed of unused product. Do not reuse empty containers. Do not burn, or use a cutting torch on the empty container.

SECTION 14.0	TRANSPORT INFORMATION
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The shipping descriptions shown here are for bulk shipments only and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode specific and quantity specific Dangerous Goods Regulations for additional shipping description requirements (e.g. technical names or names, etc.). Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flash points for the material may vary slightly between the SDS and the bill of lading.

US DOT

UN3295, HYDROCARBONS, LIQUID, N.O.S., (ISOALKANES (C₉—C₁₁)), 3, III

IATA

UN3295, HYDROCARBONS, LIQUID, N.O.S., (ISOALKANES (C₉—C₁₁)), 3, III

IMO/IMDG

UN3295, HYDROCARBONS, LIQUID, N.O.S., (ISOALKANES (C₉—C₁₁)), 3, III (39.4 °C)

ADR (Agreement on Dangerous Goods by Road (Europe))

UN3295, HYDROCARBONS, LIQUID, N.O.S., (ISOALKANES (C₉—C₁₁)), 3, III (D/E)

RID (Regulations Concerning The International Transport of Dangerous Goods (Europe))

UN3295, HYDROCARBONS, LIQUID, N.O.S., (ISOALKANES (C₉—C₁₁)), 3, III

ADN (European Agreement Concerning the International Carriage of Dangerous Goods By Inland Waterways)

UN3295, HYDROCARBONS, LIQUID, N.O.S., (ISOALKANES (C₉—C₁₁)), 3, III

Transport in bulk according to Annex II of MARPOL, 73/78 and the IBC code



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SECTION 15.0	REGULATORY INFORMATION
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US Federal regulations

SARA 302 Threshold Planning Quantity

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

SARA 311/312 Hazards

Fire Hazard

SARA 313 Ingredients

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

Clean Air Act

Ozone Depletion Potential: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the US Clean Air Act Section 602 (40CFR82, Subpart. A, App. A + B)

TSCA

On TSCA Inventory

US State Regulations

California Prop 65 Ingredients

This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive defects.

International regulations

Europe REACH	On the inventory or in compliance with the inventory
Canada DSL	On the inventory or in compliance with the inventory
Australia AICS	On the inventory or in compliance with the inventory
New Zealand NZIoC	Not in compliance with the inventory
Japan ENCS	On the inventory or in compliance with the inventory
Korea ENCS	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

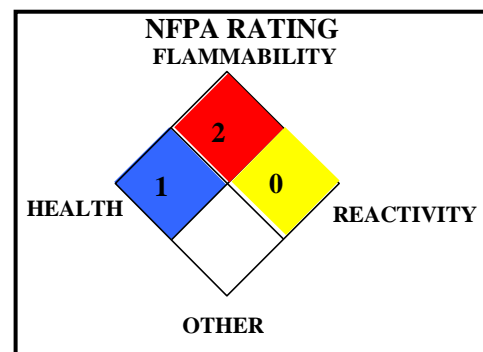


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SECTION 16.0	OTHER INFORMATION
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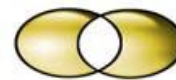
NFPA Classification

Health Hazard: 1
 Fire Hazard: 2
 Reactivity Hazard: 0



Abbreviations

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = European Road Transport; AICS = Australia Inventory of Chemical Substances; ASTM = American society of Testing and Materials; ATE = Acute Toxicity Estimation: AU = Australia; Autoignition Temperature = The minimum temperature required to initiate combustion in air with no other source of ignition, BCF = Bioconcentration Factor; BEI = - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV, BEL = Biological exposure limits; BOD = Biochemical Oxygen Demand; BTEX = Benzene, Toluene, Ethylbenzene, Xylenes; C = Celsius, CA = Canada, CAS = Chemical Abstracts Service; CEFIC = European Chemical Industry Council; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; CLP = Classification Packaging and Labelling Regulation (Regulation (EU) No. 1272/2008; COC = Cleveland Open Cup; CN = China; CPR= Controlled Products Regulations; CWA = Clean Water Act; DEA – Drug Enforcement Administration; DFG = Deutsche Forschungsgemeinschaft; DIN = Deutsches Institut für Normung; DMEL = Derived Minimal Effect Level; DNEL = Derived No Effect Level; DOT = Department of Transportation; DSL = Domestic Substances List (Canada); EC = European Commission; EC50 = Effective Concentration fifty; ECC = European Economic Community; ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals; ECHA = European Chemicals Agency; EINECS - European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EL50 = Effective Loading fifty; ENCS = Japan Existing and New Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; EUH statement = CLP –specific Hazard statement: EWC = European Waste Code; F = Fahrenheit; Flash Point = Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. GHS = Globally Harmonized System of Classification and Labelling of Chemicals; HAPs = Hazardous Air Pollutants; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IBC = Intermediate Bulk Container; IC50 = Inhibitory Concentration fifty; ICAO = International Civil Aviation Organization; IDL = Ingredient Disclosure List; IDLH = Immediately Dangerous to Life and Health; IL50 = Inhibitory Level fifty; IMDG = International Maritime Dangerous Goods; INSHT = National Institute for Health and Safety at Work; INV = Chinese Chemicals Inventory; IOPC = International Oil Pollution Compensation; IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables; JP – Japan; Kow = Octanol/water partition; KECI = Korea Existing Chemicals Inventory, LC50 = Lethal Concentration (gases) which kills 50% of the exposed animals, LD50 = :Lethal Dose (solids & liquids) which kills 50% of the exposed animals; . LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading; LL50 = Lethal Loading fifty; LEL = The lowest percent of vapor in air, by



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volume, that will explode or ignite in the presence of an ignition source.; LogPow = logarithm of the octanol/water partition coefficient; LOLI = List of Lists™ - ChemADVISOR's Regulatory Database; MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution; MAK = Maximum Concentration Value in the Workplace; MEL = Maximum Exposure Limits; mg/m³ = : Concentration expressed in weight of substance per volume of air, mg/kg = Quantity of material, by weight, administered to a test subject, based on their body weight in kg, NDSL = Non-Domestic Substances List (Canada); NE = Not Established; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level; NTP = National Toxicology Program; NZ = New Zealand; OE_HP V = Occupational Exposure - High Production Volume; OSHA = U.S. Occupational Safety and Health Administration; PAH = Polycyclic Aromatic Hydrocarbon; PBT = Persistent, Bioaccumulative and Toxic; PEL = Permissible Exposure Limit (OSHA); PH= Philippines; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = Concentration expressed in parts of material per million parts of air or water, PMCC = Pensky Martin Closed Cup; PNEC = Predicted No Effect Concentration; RCRA = Resource Conservation and Recovery; REACH = Registration Evaluation And Authorization Of Chemicals; RID = European Rail Transport; RRN = REACH Registration Number: RQ = Reportable Quantity; RTECS = Registry of Toxic Effects of Chemical Substances®; RTK = Right To Know; SARA = Superfund Amendments and Reauthorization Act; SKIN_DES = Skin Designation; STEL = Short Term Exposure Limit (15 minutes); SCBA = Self-Contained Breathing Apparatus; SDWA = Safe Drinking Water Act; STOT = Specific Target Organ Toxicity, TDLo, = the lowest dose to cause a symptom, TCLo = the lowest concentration to cause a symptom; TDo, LDLo, and LDo, or TC, TCo, LCLo, and LCo, the lowest dose (or concentration) to cause lethal or toxic effects, TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value (ACGIH); TRA = Targeted Risk Assessment; TSCA = Toxic Substances Control Act ; TWA = Time Weighted Average (8 hours); UEL = The highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.; UN = United Nations; US = United States; UVCB = Unknown, of Variable Composition, or of Biological Origin; vPvB = very Persistent and very Bioaccumulative; WHMIS = Worker Hazardous Materials Information System (Canada)

Disclaimer

The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date of preparation of this Safety Data Sheet. However, Seller does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license. All materials may present unknown hazards and should be used with caution. In addition, no responsibility can be assumed by the Seller for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the material. Seller assumes no responsibility for injury to Buyer or to third persons or any damage to any property. Buyer assumes all such risks.