



# SAFETY DATA SHEET

<b>SECTION 1.0</b>	<b>PRODUCT AND COMPANY IDENTIFICATION</b>
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**Product Identifier**

UNIPAR® IP 170 PC

**Other means of identification**

Isoparaffin, Aliphatic Hydrocarbon, Isoalkane

**Recommended use (identified)**

Industrial solvent, process fluid

**Manufacturer/Importer/Supplier/Distributor Information**UNISOURCE-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 number**UNISOURCE-ENERGY, LLC  
1-800-444-5510CHEMTREC  
1-800-424-9300

<b>SECTION 2.0</b>	<b>HAZARD(S) IDENTIFICATION</b>
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**OSHA/HCS status**Flammable Liquid, Category 4  
Aspiration hazard, Category 1**GHS label elements**



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**Signal word**

Danger

**Hazard statement**

Combustible liquid

May be fatal if swallowed and enters airways

**Precautionary statement**
**Prevention**

Keep away from heat/sparks/open flames/hot surfaces – NO SMOKING.

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**
**CAS number/other identifiers**

Ingredient Name	%	CAS number
C <sub>12</sub> -- C <sub>14</sub> Isoalkanes	100	68551-19-9

**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 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.

**Inhalation**

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



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## Skin contact

If on the skin, rinse well with water. If on clothes, remove clothes.

## Ingestion

Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

<b>SECTION 5.0</b>	<b>FIRE-FIGHTING MEASURES</b>
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### Suitable extinguishing media

Alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Dry Chemical

### Unsuitable extinguishing media

High volume water jet

### Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### Further Information

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. Keep away from open flames, hot surfaces and sources of ignition.

### Hazardous decomposition products

Carbon oxides

<b>SECTION 6.0</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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### Personal precautions

Use personal protective equipment. Ensure adequate ventilation.

### 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). Keep in suitable closed containers for disposal.



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<b>SECTION 7.0</b>	<b>HANDLING AND STORAGE</b>
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## Handling

### Advice for safe handling

Avoid formation of aerosol. Do not breathe vapors/dust. For personal protection see Section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. 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. 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. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards.

<b>SECTION 8.0</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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Ingredient	Basis	Value	Control Parameters	Note
C <sub>12</sub> —C <sub>14</sub> Isoalkanes	Manufacturer	TWA	1200 mg/m <sup>3</sup>	Reciprocal Calculation Method

## Engineering measures

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited tie or under certain circumstances.

## Personal protective equipment

### Respiratory protection

Wear a supplied air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved



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respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air Purifying Respirator for Dusts and Mists/P100. Use a positive pressure, air supplying respirator if there is potential for uncontrolled release, exposure levels are not known or other circumstances where air purifying respirators may not provide adequate protection.

## Hand protection

The suitability for a specific workplace should be discussed with the producers of the protective gloves. For prolonged or repeated contact use protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced, if there is any indication of degradation or chemical breakthrough.

## Eye protection

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

## Skin and body protection

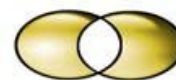
Choose body protection according to the amount and concentration of the dangerous substance at the workplace. Wear as appropriate. Protective suit. Safety shoes.

## Hygiene measures

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

<b>SECTION 9.0</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Form</b>	Liquid
<b>Physical state</b>	Liquid
<b>Color</b>	Colorless at room temperature
<b>Odor</b>	Mild Hydrocarbon
<b>pH</b>	7
<b>Molecular formula</b>	UVCB
<b>Molecular weight</b>	Not applicable
<b>Pour point</b>	No data available
<b>Initial boiling point and boiling range</b>	217 -- 246 °C (423 -- 475 °F)
<b>Flash point</b>	79.4 °C (174.9 °F) Tag Closed Cup
<b>Evaporation rate</b>	0.01
<b>Lower explosive (flammable) limits</b>	No data available
<b>Upper explosive (flammable) limits</b>	No data available
<b>Vapor pressure</b>	0.70 mmHg at 37.8 °C (100 °F)



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<b>Oxidizing properties</b>	No
<b>Thermal decomposition</b>	No data available
<b>Relative vapor density</b>	3 (Air = 1.0)
<b>Relative density</b>	0.78 at 15.6 °C (60.1 °F)
<b>Water Solubility</b>	Negligible
<b>Partition coefficient n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Viscosity, kinematic</b>	2.6 cSt at 38 °C (100 °F)

## SECTION 10.0

## STABILITY AND REACTIVITY

### Chemical stability

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

### Conditions to avoid

Heat, sparks, fire and oxidizing agents

### Incompatible materials

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

### Thermal decomposition products

No data available

### Hazardous decomposition products

Carbon dioxide, Carbon oxides

### Other data

No decomposition if stored and applied as directed.

## SECTION 11.0

## TOXICOLOGICAL INFORMATION

### Irritation/Corrosion

#### Skin

No skin irritation

Information given is based on data obtained from similar substance

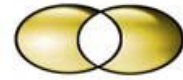
#### Eyes

No eye irritation

Information given is based on data obtained from similar substance

### Sensitization

Did not cause sensitization on laboratory animals.



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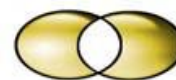
Information given is based on data obtained from similar substance

## Aspiration toxicity

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

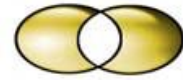
<b>C<sub>12</sub> – C<sub>14</sub> Isoalkanes</b>			
<b>Toxicity</b>	<b>Species</b>		
<b>Acute inhalation*</b>	Rat	LC <sub>50</sub>	>5.3 mg/l
		Exposure time	4 hr.
		Test atmosphere	vapor
		Method	OECD Test Guideline 403
<b>Repeated dose - Inhalation</b>	Monkey	Application Route	Inhalation
		Dose	0, .654 ppm
		Exposure time	4 weeks.
		Number of exposures	6 h/d, 3 d/wk.
		NOEL	>654 ppm
Method	OECD Test Guideline 412		
<b>Repeated dose – Oral*</b>	Rat, male and female	Application Route	Oral gavage
		Dose	0, 25, 150, 1000 mg/kg/d
		Exposure time	4 weeks
		Number of exposures	Daily
		NOEL	≥1000 mg/kg/d
		Method	OECD Test Guideline 422
<b>Reproductive toxicity*</b>	Rat, male	Application Route	Oral gavage
		Dose	0, 750, 1500, 3000 mg/kg/bw/d
		Test period	90 days
		Number of exposures	Daily
		NOAEL Parent	≥ 3000 mg/kg/bw/d
		Method	OECD Test Guideline 415



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<b>C<sub>12</sub> – C<sub>14</sub> Isoalkanes</b>			
<b>Toxicity</b>	<b>Species</b>		
<b>Reproductive toxicity*</b>	Rat, female	Application Route	Oral gavage
		Dose	0, 750, 1500 mg/kg/bw/d
		Test period	90 days
		Number of exposures	Daily
		NOAEL Parent	≥ 1500 mg/kg/bw/d
		NOAEL F1	750 mg/kg/bw/d
		Method	OECD Test Guideline 415
<b>Reproductive toxicity*</b>	Rat, male and female	Application Route	Inhalation (vapor)
		Dose	100, 300 ppm
		Test period	8 weeks
		Number of exposures	6 h/d/5d/wk
		NOAEL Parent	≥ 300 ppm
		NOAEL F1	≥ 300 ppm
		Method	OECD Test Guideline 421
<b>Developmental toxicity*</b>	Rat	Application Route	Inhalation
		Dose	100, 300 ppm
		Test period	GD 6 - 15
		Number of exposures	6 h/d
		NOAEL Teratogenicity	≥ 300,ppm
<b>Developmental toxicity*</b>	Rat	Application Route	Inhalation
		Dose	300, 900 ppm
		Test period	GD 6 - 15
		Number of exposures	6 h/d
		NOAEL Teratogenicity	≥ 900 ppm
		NOAEL Maternal	≥ 900 ppm
		Method	OECD Test Guideline 414





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C <sub>12</sub> – C <sub>14</sub> Isoalkanes			
Toxicity	Species		
Developmental toxicity*	Rat	Application Route	Oral gavage
		Dose	0, 500, 1000, 1500 mg/kg/d
		Test period	GD 6 -- 15
		Number of exposures	Daily
		NOAEL Teratogenicity	1000 mg/kg/
		NOAEL Maternal	500 mg/kg
		Method	OECD Test Guideline 414

\* Information given is based on data obtained from similar substances

## 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

## Carcinogenicity toxicity Conclusion/Summary

Limited evidence of carcinogenicity in animal studies

## Mutagenicity toxicity Conclusion/Summary

Test on bacterial or mammalian cell cultures did not show mutagenic effects. In vivo test did not show mutagenicity effects.

## Reproductive toxicity Conclusion/Summary

No adverse effects expected

## Teratogenicity Conclusion/Summary

Animal testing did not show any effects on fetal development

## Further Information

Solvents may degrease the skin



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<b>SECTION 12.0</b>	<b>ECOLOGICAL INFORMATION</b>
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## Ecotoxicity

<b>C<sub>12</sub> – C<sub>14</sub> Isoalkanes</b>		
<b>Species</b>		
<b>Oncorhynchus mykiss (rainbow trout)*</b>	LL <sub>50</sub>	>1,000 mg/l
	Exposure time	96 hours
	Semi-static test Method	OECD Test Guideline 203
<b>Daphnia magna (water flea)*</b>	EL <sub>50</sub>	>1,000 mg/l
	Exposure time	48 hours
	Semi-static test Method	OECD Test Guideline 202
<b>Pseudokirchneriella subcapitata (green algae)</b>	EL <sub>50</sub>	>1,000 mg/l
	Exposure time	48 hour
	Growth inhibition Method	OECD Test Guideline 201
<b>Chronic toxicity</b>		
<b>Oncorhynchus mykiss (rainbow trout)</b>	NOELR	0.316 mg/l
	Exposure time	28 days
	Method	QSAR modeled data

\* Information given is based on data obtained from similar substances

## Biodegradability

Expected to be biodegradable

## PBT assessment

Non-classified PBT substance

Non-classified vPvB substance

## Additional ecotoxicology information

No data available

<b>SECTION 13.0</b>	<b>DISPOSAL CONSIDERATIONS</b>
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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



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this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

## 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

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BE THIS AGENCY

Testing (ASTM D4206) has shown product does not sustain combustion

### IATA

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BE THIS AGENCY

### IMO/IMDG

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BE THIS AGENCY

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BE THIS AGENCY

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BE THIS AGENCY

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BE THIS AGENCY



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

<b>SECTION 15.0</b>	<b>REGULATORY INFORMATION</b>
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## US Federal regulations

### CERCLA Reportable Quantity

This product does not contain any components with a CERCLA Reportable Quantity

### SARA 302 Reportable Quantity

This product does not contain any components with a SARA 302 Reportable Quantity

### SARA 302 Threshold Planning Quantity

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

### SARA 304 Reportable Quantity

This material does not contain any components with a section 304 EHS Reportable Quantity

### 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)

This product does not contain any hazardous air pollutants (HAP), as defined by the US Clean Air Act Section 12 (40 CFR 61).

### TSCA

On TSCA Inventory

## US State Regulations

### Pennsylvania Right to Know

C<sub>12</sub> – C<sub>14</sub> Isoalkanes – 68551-19-9

### New Jersey Right to Know

C<sub>12</sub> – C<sub>14</sub> Isoalkanes – 68551-19-9

### 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.



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## International regulations

### Europe REACH

This mixture contains only ingredients which have been subject to a preregistration according to Regulation (EU) No. 1907/2006 (REACH)

### Canada DSL

All components of this product are on the Canadian DSL

### Australia AICS

On the inventory or in compliance with the inventory

### New Zealand NZIoC

This substance may be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right.

### Japan ENCS

On the inventory or in compliance with the inventory

### Korea ENCS

On the inventory or in compliance with the inventory

### Philippines PICCS

Not in compliance with the inventory

### China IECSC

On the inventory or in compliance with the inventory

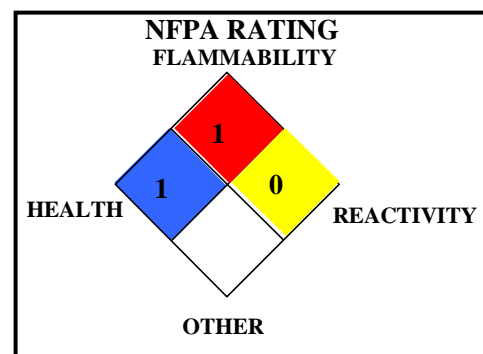
<b>SECTION 16.0</b>	<b>OTHER INFORMATION</b>
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## NFPA Classification

Health Hazard: 1

Fire Hazard: 1

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

UNIPAR® IP 170 PC

November 20, 2015

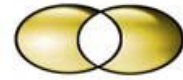


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Regulation (Regulation (EU) No. 1272/2008; COC = Cleveland Open Cup; CN = China; CPR= Controlled Products Regulations; CWA = Clean Water Act; DEA – Drug Enforcement Administration; DFG = Deutsche Forschungsgemeinschaft; DIN = Deutsches Institut für 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, LC<sub>50</sub> = 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; LL<sub>50</sub> = Lethal Loading fifty; LEL = The lowest percent of vapor in air, by 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/m<sup>3</sup> = : 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 Ob-served 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



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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.