## SECTION 1.0 PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Identifier</td>
<td>UNIAROM® SX 250 IF</td>
</tr>
<tr>
<td>Other means of identification</td>
<td>Mixed heavy aromatics</td>
</tr>
<tr>
<td>CAS Number</td>
<td>68477-30-5</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Solvent</td>
</tr>
</tbody>
</table>

**Manufacturer/Importer/Supplier/Distributor Information**

UniSource Energy, Inc.
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, Inc.
1-800-444-5510

CHEMTREC
1-800-424-9300

## SECTION 2.0 HAZARD(S) IDENTIFICATION

**Classification (GHS-US)**
Carcinogenicity Category 2
Specific target organ toxicity (single exposure) Category 3 – Narcotic effects
Specific target organ toxicity (single exposure) Category 3 – Respiratory irritation
Aspiration hazard Category 1

**GHS label elements**

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Signal word: Danger

Hazard statement:
- May be fatal if swallowed and enters airways
- May cause respiratory irritation
- May cause drowsiness or dizziness
- Suspected of causing cancer

Precautionary statement:
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing gas, mist, spray, vapors. Use only outdoors or in a well-ventilated area. Wear eye protection, impermeable protective gloves, flame retardant protective clothing. If swallowed: Immediately call doctor, poison center. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call doctor, poison center if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC): Product can accumulate electrostatic charges that may cause fire by electrical discharges.

Unknown acute toxicity (GHS-US): Not applicable

Additional information:
Based on conditions common to industrial workplace use of this product
- May cause mild eye irritation.
- May cause mild skin irritation.

SECTION 3.0 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance</th>
<th>Name</th>
<th>CAS Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Aromatic hydrocarbons (C15+)</td>
<td>-</td>
<td>95 - 100</td>
</tr>
<tr>
<td></td>
<td>Polycyclic Aromatic Compounds</td>
<td>130498-29-2</td>
<td>0 -3</td>
</tr>
<tr>
<td></td>
<td>Aromatic hydrocarbons (11 –C14)</td>
<td>-</td>
<td>0 – 2</td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>0 – 0.4</td>
</tr>
</tbody>
</table>

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### SECTION 4.0  FIRST AID MEASURES

**Description of necessary first aid measures**

**First –aid General Measures**

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer.

**Eye contact**

Rinse immediately with plenty of water. Obtain medical attention if irritation persists.

**Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

**Skin contact**

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**Ingestion**

Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

**Most important symptoms, acute and delayed**

- **Inhalation**: May cause respiratory irritation.
- **Ingestion**: May be fatal if swallowed and enters airways.

**Indication of immediate medical attention and special treatment needed**

Treat symptomatically

---

### SECTION 5.0  FIRE-FIGHTING MEASURES

**Suitable extinguishing media**


**Unsuitable extinguishing media**

Do not use a heavy water stream.

**Specific hazards arising from the chemical**

Combustible liquid. May form flammable/explosive vapor-air mixture.

**Advice for firefighters**

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.
### SECTION 6.0  ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

<table>
<thead>
<tr>
<th>Emergency procedures</th>
<th>.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-emergency personnel</td>
<td>Evacuate unnecessary personnel</td>
</tr>
<tr>
<td>Emergency responders</td>
<td>Ventilate area.</td>
</tr>
</tbody>
</table>

**Methods and materials for containment and cleaning up**

<table>
<thead>
<tr>
<th>For containment</th>
<th>Dike for recovery or absorb with appropriate material. Do not contaminate ground and surface water.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methods for cleaning up</td>
<td>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.</td>
</tr>
</tbody>
</table>

See section 8. Exposure controls/personal protection

### SECTION 7.0  HANDLING AND STORAGE

**Personal precautions, protective equipment and emergency procedures**

<table>
<thead>
<tr>
<th>Additional hazards when processed</th>
<th>Handle empty containers with care because residual vapors are flammable. Keep away from heat, sparks, open flames, hot surfaces. - No smoking.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precautions for safe handling</td>
<td>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No bare lights. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist. Use only outdoors or in a well-ventilated area.</td>
</tr>
</tbody>
</table>

**Conditions for safe storage, including any incompatibilities**

| Technical measures | Proper grounding procedures to avoid static electricity should be followed. All efforts should be made to prevent any leaks or |

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spills. Storage tanks 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.

- **Incompatible products**: Strong bases. Strong acids

- **Incompatible materials**: Sources of ignition. Direct sunlight. Heat sources.

### SECTION 8.0 EXPOSURE CONTROLS/PERSOAL PROTECTION

#### Occupational Exposure Limits

**Naphthalene (91-20-3)**

<table>
<thead>
<tr>
<th>Source</th>
<th>Limit Type</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>15 ppm</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>10 ppm</td>
</tr>
</tbody>
</table>

#### Engineering Controls

- **Appropriate Engineering Controls**: Ensure adequate ventilation
- **Personal protective equipment**: Avoid all unnecessary exposure.
- **Hand protection**: Impermeable protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection**: Chemical goggles or safety glasses.
- **Skin and body protection**: Wear fire/flame resistant/retardant clothing.
- **Respiratory protection**: An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.
- **Other information**: Do not eat, drink or smoke during use.
### SECTION 9.0 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Straw</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>Evaporation is slower than butyl acetate</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>280 - 380 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;= 121°C Closed cup</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt; 1 mm Hg @ 20°C</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>4.5 (Air = 1)</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.97 – 1.02</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: Negligible.</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>&lt; 20 cSt @ 40°C</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC content</td>
<td>100 %</td>
</tr>
</tbody>
</table>

### SECTION 10.0 STABILITY AND REACTIVITY

**Reactivity**

Combustible liquid.
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SAFETY DATA SHEET

Chemical stability  Stable at ambient temperature and under normal conditions of use.

Possibility of hazardous reactions  Under normal conditions of storage and use, hazardous polymerization will not occur.


Incompatible materials  Strong oxidizing agents.

Hazardous decomposition products  Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, toxic fumes.

SECTION 11.0  TOXICOLOGICAL INFORMATION

Likely routes of exposure  Eye contact, Skin contact, Ingestion, Inhalation

Acute toxicity  Not classified

UNIAROM® SX 250 IF (68477-30-5)

LD50 oral rat  > 2000 mg/kg Bridging principle "Substantially similar mixtures"
LD50 dermal rat  > 5000 mg/kg Bridging principle "Substantially similar mixtures"
LC50 inhalation rat  > 5000 mg/l/4h Bridging principle "Substantially similar mixtures"

Naphthalene (91-20-3)

LD50 oral rat  490 mg/kg
LD50 dermal rabbit  > 20 g/kg
LC50 inhalation rat  > 340 mg/m³ (Exposure time: 1 h)

Skin corrosion/irritation  Not classified

Serious eye damage/irritation  Not classified

Respiratory or skin sensitization  Not classified

Germ cell mutagenicity  Not classified

Carcinogenicity  Suspected of causing cancer

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Revision date: Issue date: May 19, 2015
Naphthalene (91-20-3)
IARC group 2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status 2 - Reasonably anticipated to be Human Carcinogen

Polycyclic Aromatic Compounds (130498-29-2)
National Toxicology Program (NTP) Status 2 - Reasonably anticipated to be Human Carcinogen
Additional Information This product may contain polycyclic aromatic hydrocarbons, PAHs (also called polynuclear aromatics, PNAs or Aromatic Hydrocarbons, polycyclic), some of which are suspected of causing skin cancer in humans under conditions of poor personal hygiene and prolonged, repeated contact. Wear chemically impervious gloves. Always wash skin with soap and water after skin contact.

Reproductive toxicity Not classified
Specific target organ toxicity (single exposure) May cause drowsiness or dizziness. May cause respiratory irritation
Specific target organ toxicity (repeated exposure) Not Classified

UNIAROM® SX 250 IF (68477-30-5)
NOAEL (oral, rat, 90 days) 300 mg/kg bodyweight/day
Aspiration hazard May be fatal if swallowed and enters airways

SECTION 12.0 ECOLOGICAL INFORMATION
Toxicity
Ecology - general Constituents of this type of aromatic solvent are expected to partition between air, water, and soil.

Persistence and Degradability Constituents of this type of aromatic solvent are expected to biodegrade.
Bioaccumulative Potential
Not established.

Mobility in Soil
No additional information available

Other Adverse Effects
Avoid release to the environment.

SECTION 13.0

DISPOSAL CONSIDERATIONS

Waste disposal recommendations
Dispose in a safe manner in accordance with local/national regulations. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Additional information
Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials
Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14.0

TRANSPORT INFORMATION

U.S. Transportation (DOT) for Bulk Shipments (Non-Bulk Shipments May Differ)
Not a DOT controlled material

In accordance with the definition in 49 CFR § 171.8, a hazardous substance does not include petroleum, including crude oil or any fraction thereof which is not other specifically listed or designated as such in Appendix A to 49 CFR § 172.101. Therefore, this product does not require a RQ designation.

International Maritime Dangerous Goods (IMDG)
Not an IMDG controlled material
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### Hazard labels (IMDG)

![Hazard label]

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

<table>
<thead>
<tr>
<th>Product name</th>
<th>Poly(2+)cyclic aromatics (UNIAROM® SX 250 IF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollution category</td>
<td>X</td>
</tr>
<tr>
<td>Ship type</td>
<td>2</td>
</tr>
<tr>
<td>Cargo name listed in 46 CFR 30.25, Table 30.25-1</td>
<td>Poly(2+)cyclic aromatics</td>
</tr>
<tr>
<td>Cargo name listed in 46 CFR 153, Table 1</td>
<td>Poly(2+)cyclic aromatics</td>
</tr>
</tbody>
</table>

### International Air Transport Association (IATA)

- Not an IATA controlled material

### Hazard labels (IATA)

![Hazard label]

## SECTION 15.0 REGULATORY INFORMATION

### US Federal regulations

#### TSCA

This product is a substance under TSCA (CAS No. 64742-94-5; Solvent naphtha (petroleum), heavy aromatic.).

#### SARA 313

This product contains chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.
This product contains Polycyclic Aromatic Compounds (PACs). PACs are listed as a category under SARA 313 and include only specific PACs listed in 40 CFR 372.65(c). The US EPA has established Reporting Threshold for PACs of 100 lbs. (40 CFR 370.28). If a facility manufactures, processes, or otherwise uses more than 100 lbs. per calendar year of the PAC category SARA 313 reporting is required. See EPA "Emergency Planning and Community Right-to-know Act - Section 313: Guidance for Reporting Toxic Chemicals: Polycyclic Aromatic Compounds Category" (EPA # 260-B-01-03).

SARA 313 Components:
Naphthalene CAS No.: 91-20-3 Concentration: 0 – 0.4%

CERCLA/SARA - Section 311/312 Hazard Classes
Acute health hazard
Fire hazard
Chronic health hazard

Canada
WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

National Chemical Inventories
Residues (petroleum), catalytic reformer fractionator (64741-67-9)
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on the Canadian DSL (Domestic Substances List)
- Listed on the China Inventory of Existing Chemical Substances (IECSC)
- Listed on the EEC (European Economic Community) inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

US State regulations
California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity, not limited to any that may be listed below.
Naphthalene (91-20-3)

- U.S. - California - Proposition 65 - Carcinogens List: Yes
- U.S. - California - Proposition 65 - Developmental Toxicity: No
- U.S. - California - Proposition 65 - Reproductive Toxicity - Female: No
- U.S. - California - Proposition 65 - Reproductive Toxicity - Male: No
- No significance risk level (NSRL): 5.8 μg/day

### SECTION 16.0

<table>
<thead>
<tr>
<th>Other Information, Including Date of Preparation or Last Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NFPA (National Fire Protection Association)</strong></td>
</tr>
<tr>
<td>NFPA health hazard : 1</td>
</tr>
<tr>
<td>NFPA fire hazard : 1</td>
</tr>
<tr>
<td>NFPA reactivity : 0</td>
</tr>
</tbody>
</table>

**HMIS III Rating**

- Health : 1*
- Flammability : 1
- Physical Hazard : 0
- Personal Protection : See section 8 of SDS
UNISOURCE ENERGY, INC.

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US OSHA LABEL as specified under 29 CFR §1910.1200 (f)

| UNIAROM® TX 200 IF | UniSource Energy, Inc.  
40 Shuman Blvd, Suite 290  
Naperville, IL 60563  
Phone: 630-470-6030 |
|---------------------|---------------------------------------------------------------|

### Danger

May be fatal if swallowed and enters airways  May cause respiratory irritation  May cause drowsiness or dizziness.  Suspected of causing cancer

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing gas, mist, spray, vapors. Use only outdoors or in a well-ventilated area. Wear eye protection, impermeable protective gloves, flame retardant protective clothing. If swallowed: Immediately call doctor, poison center. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call doctor, poison center if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental Information:** Other hazards not contributing to the classification
Product can accumulate electrostatic charges that may cause fire by electrical discharges

### Abbreviations

ACGIH = American Conference of Governmental Industrial Hygienists; AICS = Australia Inventory of Chemical Substances; ATE = Acute Toxicity Estimate, BCF = Bioconcentration Factor; CAS = Chemical Abstracts Service; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; COC = Cleveland Open Cup; DSL = Domestic Substances List (Canada); ECC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; ENCS = Japan Existing and New Chemical Substances; EPA = Environmental Protection Agency; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IBC = Intermediate Bulk Container; IDLH = Immediately Dangerous to Life and Health; IMDG = International Maritime Dangerous Goods; INSHT = National Institute for Health and Safety at Work; NDSL = Non-Domestic Substances List (Canada); IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution; NE = Not
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Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PAH = Polycyclic Aromatic Hydrocarbon; PEL = Permissible Exposure Limit (OSHA); PICCS = Philippines Inventory of Chemicals and Chemical Substances, SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); SCBA = Self-Contained Breathing Apparatus; TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); TSCA = Toxic Substances Control Act Section 8(b); Inventory UEL = Upper Explosive Limit; UN = United Nations; HMIS = Worker Hazardous Materials Information System (Canada)

Disclaimer

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