SAFETY DATA SHEET
In accordance with 3rd revision GHS

Section 1 – Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>WS3040</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Names</td>
<td>White spirit</td>
</tr>
<tr>
<td>Product Use</td>
<td>Use in dry cleaning, paint, polish as general purpose cleaning solvent.</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>IRPC Public Co., Ltd.</td>
</tr>
<tr>
<td></td>
<td>299 Moo 5 Sukhumvit Road Amphur Muang Rayong Thailand</td>
</tr>
<tr>
<td>Emergency Call</td>
<td>+66(0) 38 802560</td>
</tr>
<tr>
<td>Website</td>
<td><a href="http://www.irpc.co.th">www.irpc.co.th</a></td>
</tr>
</tbody>
</table>

Section 2 – Hazards Identification

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

- Flammable liquid Category 3
- Carcinogen Category 1B
- Germ cell mutagenicity Category 1B
- Aspiration toxicity Category 1

Pictograms

Signal word  Danger

Hazard Statements
- H226 Flammable liquid and vapor.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H350 May cause cancer.

Precautionary Statements
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing fume/gas.
- P281 Personal protective equipment required.
- P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/containers in accordance with local regulation.
**Section 3 – Composition/ Information on Ingredients**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>Percent weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrodesulfurized heavy</td>
<td>64742-82-1</td>
<td>265-185-4</td>
<td>&lt; 85</td>
</tr>
<tr>
<td>Aromatics</td>
<td>-</td>
<td>-</td>
<td>&gt; 15</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>203-625-9</td>
<td>&gt; 0.1</td>
</tr>
<tr>
<td>Benzene</td>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>&lt; 0.1</td>
</tr>
</tbody>
</table>

**Section 4 – First-aid Measures**

**Skin Exposure**: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available).

**Eyes Exposure**: Wash out immediately with fresh running water at least 15 minutes.

**Inhalation**: If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Apply artificial respiration if not breathing, preferably with demand valve resuscitator, bag valve mask device, or pocket mask as trained.

**Ingestion**: DO NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

**Section 5 – Fire-fighting Measures**

**Suitable extinguishing agents**: Foam, Dry chemical, CO₂ or water spray to extinguish gas. DO NOT use water jets.

**Hazards during fire-fighting**: Carbon monoxide (CO), carbon dioxide (CO₂), sulfur oxides (SO₃), hydrogen sulfide (H₂S), and other pyrolysis products typical of burning organic material.

**Protective equipment**: Neoprene or nitrile gloves to prevent skin contact.

**Section 6 – Accidental Release Measures**

**Personal precautions**: Avoid breathing vapors and contact with skin and eyes.

**Cleanup**: Clear area of all unprotected personnel and move upwind. Alert Emergency Authority and advise them of the location and nature of hazard. May be violently or explosively reactive. Wear full body...
protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapor. Contain spill with sand, earth or vermiculite. Use only spark-free shovels and explosion proof equipment. Absorb remaining product with sand, earth or vermiculite and wipe up. Collect solid residues and seal in labeled drums for disposal. Wash area and prevent runoff into drains.

Section 7 – Handling and Storage

Handling: DO NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic discharge may be generated during pumping - this may result in fire. DO NOT use compressed air for filling discharging or handling operations. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. Avoid all personal contact, including inhalation.

Storage conditions: Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapors may be trapped. Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorized personnel - adequate security must be provided so that unauthorized personnel do not have access. Protect containers against physical damage and check regularly for leaks. Store in grounded, properly designed and approved vessels and away from incompatible materials.

Section 8 – Exposure Controls / Personal Protection

Exposure limits: No exposure limit value known
Exposure controls: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment.

Personal protective equipment
Respiratory protection: Not required under normal conditions and adequate ventilation. Approved organic vapor chemical cartridge or supplied air respirators are recommended.
Protective clothing: PVC protective suit may be required if exposure severe.
Hand protection: Chemical resistant gloves.

Section 9 – Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical Description</th>
<th>Bright and clear Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Marketable</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>370 Pa @ 20°C (Typical)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>145-200 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>40 °C</td>
</tr>
<tr>
<td>Auto-ignition</td>
<td>250 °C</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Immiscible</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative Density</td>
<td>&gt; 0.46</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Octanol/water partition coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper/Lower Explosive Limit (%)</td>
<td>7.0/0.47</td>
</tr>
<tr>
<td>Volatile component</td>
<td>Varies</td>
</tr>
</tbody>
</table>

Section 10 – Stability and Reactivity

Stability: Product is considered stable.
Condition to Avoid: High temperatures, heat, flames and static electricity.
Material to Avoid: Strong oxidizing agents; nitrates, oxidizing acids, chlorine bleaches
Dangerous decomposition: Carbon monoxide (CO), carbon dioxide (CO₂).

Section 11 – Toxicological Information

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Route</th>
<th>Species</th>
<th>Acute Toxic Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrosulfurized heavy</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD₅₀ &gt; 3160 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Oral</td>
<td>Rat</td>
<td>LC₅₀ &gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

Irritating/corrosive effects
Eye Irritation: May cause eye irritation, prolong eye contact may cause inflammation characterized by temperature redness of the conjunctiva.
Skin Irritation: Repeat exposure may cause skin cracking, flaking or drying following normal handling and use.

Inhalation: May cause drowsiness and dizziness.

Ingestion: May be damaging to the health of the individual. Larger amount can cause nausea and vomiting, narcosis, weakness, dizziness.

Section 12 – Ecological Information

Eco-toxicity: LC\textsubscript{50} 4.3 mg/l/96 h: \textit{Crangon crangon} (Crustacea)

Persistence and degradability: Expected to be inherently biodegradable.

Bio-accumulate potential: Product is not likely to accumulate in biological organisms.

Mobility in soil: The product may infiltrate the ground.

Other adverse effects: Films formed on water may affect oxygen transfer and damage organisms.

Section 13 – Disposal Considerations

Disposal Methods:
Dispose in accordance with all applicable regulations. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Section 14 – Transport Information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Class</th>
<th>Packing group</th>
<th>Label</th>
<th>Proper Shipping Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>1300</td>
<td>3</td>
<td>III</td>
<td>![flame.png]</td>
<td>TURPENTINE SUBSTITUTE</td>
</tr>
<tr>
<td>ADR / RID</td>
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<td>3</td>
<td>III</td>
<td>![flame.png]</td>
<td>TURPENTINE SUBSTITUTE</td>
</tr>
<tr>
<td>IMDG CODE</td>
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<td>3</td>
<td>III</td>
<td>![flame.png]</td>
<td>TURPENTINE SUBSTITUTE</td>
</tr>
</tbody>
</table>
Section 15 – Regulatory Information

US Toxic Substances Control Act
All components of this product are on the TSCA Inventory.

NFPA - USA
Health – 1, Flammability – 2, Reactivity – 0

HMIS – USA
Health – 1, Flammability – 2, Reactivity – 0

European Inventory of Existing Commercial Chemical Substances (EINECS)
The components of this product are on the EINECS inventory.

EU Directives 67/548/EEC
Classification T
R-Phrases
R45: May cause cancer.
R46: May cause heritable genetic damage.
R65: Harmful: may cause lung damage if swallowed.

S-Phrases
S53: Avoid exposure – obtain special instructions before use.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 16 – Other Information

DOT : Department of Transportation
ADR : European agreement concerning the international carriage of dangerous goods by road.
RID : Regulations concerning the international carriage of dangerous goods by rail.
IMDG – CODE : International maritime dangerous goods code
ICAO : International Civil Aviation Organization
IATA : International air transport association
GHS : Globally Harmonized System of Classification and Labeling of Chemicals
CLP : Classification and Labeling of Packaging
NFPA : National Fire Protection Association
HMIS : Hazardous Materials Identification System
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