1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: FIVE-FLO, MM
Recommended use: Lubricant
Information on Manufacturer:
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code: 0141
Chemical nature: Petroleum distillates
Emergency Telephone Number:
Telephone inquiry: 972-579-2477

2. HAZARD IDENTIFICATION

Color: Yellow - Slight amber
Physical State: Liquid
Odor: Odorless

GHS Classification:
Physical Hazards: None
Health Hazard: Serious Eye Damage/Eye Irritation
Category 2B

Other hazards: None

Labeling:
Signal Word: WARNING

Hazard Statements:
H320 - Causes eye irritation

Precautionary Statements:
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.
P901 - Dispose of contents and container in accordance with applicable regulations.

2% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil, solvent refined</td>
<td>8042-47-5</td>
<td>60-100</td>
</tr>
<tr>
<td>Styrene-Ethylene/Propylene Block Copolymer</td>
<td>68648-89-5</td>
<td>1-5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General advice: Avoid contact with skin, eyes and clothing.
Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact: Wipe up with absorbent material (e.g. cloth, fleece). Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion: Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur.
Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point: 450 °F / 232 °C
Flammability Limits In Air: Not applicable.
Suitable Extinguishing Media: Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical: Material can create slippery conditions.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health 1</th>
<th>Flammability 1</th>
<th>Instability 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health 1</td>
<td>Flammability 1</td>
<td>Instability 0</td>
</tr>
</tbody>
</table>

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**
Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

**Environmental Precautions**
Do not flush into surface water or sanitary sewer system.

**Methods for Containment**
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**Methods for Cleaning Up**
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)
Neutralizing Agent
Not applicable.

### 7. HANDLING AND STORAGE

**Handling**
Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mist.

**Storage**
Store in original container. Keep container tightly closed in a dry and well-ventilated place.

**Storage Temperature**
Minimum 35 °F / 2 °C  
Maximum 120 °F / 49 °C

**Storage Conditions**
Indoor X  
Outdoor  
Heated  
Refrigerated

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil, solvent refined</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
<td>IDLH 2500 mg/m³</td>
</tr>
<tr>
<td>Styrene-Ethylene/Propylene Block Copolymer</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Engineering Measures**
Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Personal Protective Equipment**
- **Eye/Face Protection**: Safety glasses with side-shields.
- **Skin Protection**: For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.
- **Respiratory Protection**: In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations**
Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Viscosity</th>
<th>Color</th>
<th>Odor</th>
<th>Appearance</th>
<th>Specific Gravity</th>
<th>Percent Volatile (Volume)</th>
<th>Vapor Pressure</th>
<th>Solubility</th>
<th>Melting Point/Range</th>
<th>Boiling Point/Range</th>
<th>Flash Point</th>
<th>Autoignition Temperature</th>
<th>Flammability Limits in Air %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Semi-viscous</td>
<td>Yellow - Slight amber</td>
<td>Odorless</td>
<td>Transparent</td>
<td>0.871</td>
<td>0</td>
<td>0.01 mmHg @ 70°F</td>
<td>Negligible</td>
<td>No data available</td>
<td>650 °F / 343 ºC</td>
<td>450 °F / 232 °C</td>
<td>No information available.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Chemical Stability**
Stable. Hazardous polymerization does not occur.

**Conditions to Avoid**
None known

**Incompatible Products**
Strong oxidizing agents

**Hazardous Decomposition Products**
Carbon oxides, Sulfur oxides, Aldehydes, Hydrogen sulfide and smoke.

**Possibility of Hazardous Reactions**
None under normal processing

### 11. TOXICOLOGICAL INFORMATION
Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

**Oral LD50:** 5,214.99

**Dermal LD50:** No information available

**Inhalation LC50:**
- **Gas:** No information available
- **Mist:** No information available
- **Vapor:** No information available

**Principle Route of Exposure:** Skin contact, Eye contact.

**Primary Routes of Entry:** None known

**Acute Effects**
- **Eyes:** May cause eye irritation.
- **Skin:** May cause skin irritation.
- **Inhalation:** Low hazard for usual industrial or commercial handling.
- **Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Toxicity:** Prolonged skin contact may defat the skin and produce dermatitis.

**Target Organ Effects:** Skin

**Aggravated Medical Conditions:** Skin disorders

**Component Information**

**Acute Toxicity:** None known

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
<th>Draize Test</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil, solvent refined</td>
<td>&gt; 5000 mg/kg (Rat)</td>
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<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
</tr>
<tr>
<td>Styrene-Ethylene/Propylene Block Copolymer</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Mutagenicity</th>
<th>Sensitization</th>
<th>Developmental Toxicity</th>
<th>Reproductive Toxicity</th>
<th>Target Organ Effects</th>
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</thead>
<tbody>
<tr>
<td>White mineral oil, solvent refined</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
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<td>Styrene-Ethylene/Propylene Block Copolymer</td>
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<td>no data available</td>
<td>no data available</td>
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<td>no data available</td>
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</table>

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>White mineral oil, solvent refined</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
<tr>
<td>Styrene-Ethylene/Propylene Block Copolymer</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

**12. ECOLOGICAL INFORMATION**

**Product Information**

**Component Information**

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil, solvent refined</td>
<td>no data available</td>
<td>LC50 &gt; 10000 mg/L .Epomis macrorhus 96 h</td>
<td>no data available</td>
<td>no data available</td>
<td>&gt;6</td>
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<tr>
<td>Styrene-Ethylene/Propylene Block Copolymer</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Mobility:** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Product Disposal:** Dispose of in accordance with local regulations.

**Container Disposal:** Empty containers should be taken for local recycling, recovery, or waste disposal.

**14. TRANSPORT INFORMATION**

**DOT:** Not regulated

**TDG:** Not regulated
ICAO  
Not regulated

IATA  
Not regulated

IMDG/IMO  
Not regulated

### 15. REGULATORY INFORMATION

Inventories
- TSCA: Complies
- DSL: Complies

U.S. Federal Regulations
- SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

<table>
<thead>
<tr>
<th>SARA 311/312 Hazardous Categorization</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute Health Hazard</strong></td>
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<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

CERCLA

<table>
<thead>
<tr>
<th>Component</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA EHS RQs</th>
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</thead>
<tbody>
<tr>
<td>White mineral oil, solvent refined</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Styrene-Ethylene/Propylene Block Copolymer</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### 16. OTHER INFORMATION

Prepared By: Rachael Mohochi
Supercedes Date: 05/29/2012
Issuing Date: 02/12/2014
Reason for Revision: No information available.
Glossary: No information available.
List of References: No information available.

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