**Section 1 – PRODUCT IDENTIFICATION**

**Material Name:**
Hydrocarbon Resin

**Trade Name:**
LX®-2250 Resin

**Recommended Uses of Product and Restrictions**
Identified Uses: coatings, inks
Uses Advised Against: None Known

**Manufacturer Information**
Neville Chemical Company
2800 Neville Road
Pittsburgh, PA 15225-1496
Phone: 412-331-4200
Emergency Phone #: 412-331-4200 or CHEMTREC at 800-424-9300
Fax: 412-777-4234

**Section 2 – HAZARD(S) IDENTIFICATION**

**Classification in accordance with 29 CFR 1910.1200**
- Flammable liquid, Category 3
- Specific Target Organ Toxicity - Single Exposure, Category 3 (central nervous system and respiratory system)
- Specific Target Organ Toxicity - Repeated Exposure, Category 2 (skin)

**GHS LABEL ELEMENTS**

**Symbol(s)**

- !

**Signal Word**
WARNING

**Hazard Statement(s)**
- May cause drowsiness and dizziness
- May cause respiratory irritation
- May cause damage to skin through prolonged or repeated exposure.
Precautionary Statement(s)

Prevention
Do not breathe dust, mist, fumes or vapors. Use only outdoors or in a well-ventilated area.

Response
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Storage
Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal
Dispose in accordance with all applicable regulations.

Hazard(s) Not Otherwise Classified
Contact with hot material may cause thermal burns.

---

**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary</td>
<td>Modified Hydrocarbon Resin</td>
<td>99.75</td>
</tr>
<tr>
<td>6683-19-8</td>
<td>Additive (Inhibitor)</td>
<td>0.25</td>
</tr>
</tbody>
</table>

Component Related Regulatory Information
This product may be regulated, have exposure limits or other information identified as the following: Naphtha,

Contaminants:
Naphthalene (91-20-3) is contained in most of our raw materials as a non reactive non intentional material. It has a relatively high boiling temperature (218 degrees C.) and has a great affinity for petroleum hydrocarbon resins and thus is very difficult to remove completely from the resins.
This product typically contains less than 100 parts per million of naphthalene.

---

**Section 4 - FIRST-AID MEASURES**

Description of Necessary Measures

Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Safety Data Sheet

Material Name: Hydrocarbon Resin
LX®-2250 Resin

Skin Contact
Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention, if needed. Thoroughly clean and dry contaminated clothing before reuse.

Eye Contact
Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion
IF SWALLOWED: Immediately call a POISEN CENTER or doctor/physician. Do NOT induce vomiting.

Most Important Symptoms/Effects

Acute
Symptoms/effects may include mild skin irritation, mild eye irritation, nervous system damage, and respiratory tract irritation.

Delayed
May cause damage to skin through prolonged or repeated exposure.

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed
Provide general supportive measures and treat symptomatically.

** Section 5 - FIRE-FIGHTING MEASURES **

Suitable Extinguishing Media
Dry chemical, carbon dioxide, foam, water spray

Unsuitable Extinguishing Media
Do not use high-pressure water streams.

Special Hazard Arising from the Chemical
Flammable liquid and vapor. May burn if exposed to surrounding fire. When heated above its boiling point, may generate vapors that may ignite in air and a source of ignition. Vapors are heavier than air and can collect in low areas; vapors can travel to an ignition source and flash back.

Upon combustion, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Fire Fighting Measures
Move container from fire area if it can be done without risk. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.
Special Protective Equipment and Precautions for Firefighters
   Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

***Section 6 - ACCIDENTAL RELEASE MEASURES***

Personal Precautions, Protective Equipment and Emergency Procedures
   Wear appropriate personal protective equipment. Keep unnecessary people away, isolate hazard area and deny entry. Avoid contact with skin and eyes. Avoid release to the environment. Only personnel trained for the hazards of this material should perform clean up and disposal.

Methods and Materials for Containment and Cleaning Up
   Use non-sparking tools and equipment. Keep unnecessary people away, isolate hazard area and deny entry. Absorb with sand or other non-combustible material. Keep out of water supplies, sewers and soil. Collect spilled material in appropriate container for disposal. In case of spillage, stop the flow of material and block any potential routes to water systems.

***Section 7 - HANDLING AND STORAGE***

Precautions for Safe Handling
   Avoid contact with skin and eyes. Do not breathe dust, mist, fumes or vapors. Wash thoroughly after handling. Wear protective gloves and eye/face protection. Always wear recommended personal protective equipment. Wear personal protective clothing and equipment, see Section 8.

Conditions for Safe Storage, including any Incompatibilities
   Store in a cool, dry place. Store in a well-ventilated area. Avoid contact with molten (hot) material. Keep separated from incompatible substances. Keep container tightly closed. Empty containers may contain product residue. Do not reuse empty containers without commercial cleaning or reconditioning. Store and handle in accordance with all current regulations and standards.

Incompatibilities: strong oxidizing materials, combustible materials
**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

### Component Exposure Limits

<table>
<thead>
<tr>
<th>Naphthalene</th>
<th>91-20-3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACGIH</strong></td>
<td></td>
</tr>
<tr>
<td>10 ppm TWA</td>
<td></td>
</tr>
<tr>
<td>15 ppm STEL</td>
<td></td>
</tr>
<tr>
<td>Skin - potential significant contribution to overall exposure by the cutaneous route</td>
<td></td>
</tr>
<tr>
<td><strong>NIOSH</strong></td>
<td></td>
</tr>
<tr>
<td>10 ppm TWA; 50 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td>15 ppm STEL; 75 mg/m³ STEL</td>
<td></td>
</tr>
<tr>
<td>250 ppm IDLH</td>
<td></td>
</tr>
<tr>
<td><strong>Europe</strong></td>
<td></td>
</tr>
<tr>
<td>10 ppm TWA; 50 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td><strong>OSHA (US)</strong></td>
<td></td>
</tr>
<tr>
<td>10 ppm TWA; 50 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td><strong>Mexico</strong></td>
<td></td>
</tr>
<tr>
<td>10 ppm TWA LMPE-PPT; 50 mg/m³ TWA LMPE-PPT</td>
<td></td>
</tr>
<tr>
<td>15 ppm STEL [LMPE-CT]; 75 mg/m³ STEL [LMPE-CT]</td>
<td></td>
</tr>
</tbody>
</table>

### Appropriate Engineering Controls

Provide a local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. It is recommended that all vapor control equipment such as local exhaust ventilation and material transport systems involved in handling of these product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that vapor-handling systems (such as exhaust ducts, vessels, and processing equipment) are designed in a manner to prevent the escape of vapors into the work area (i.e., there is no leakage from

### Individual Protection Measures, such as Personal Protective Equipment

#### Eyes/Face Protection

Wear splash resistant safety goggles with a face shield.

#### Skin Protection

Wear appropriate chemical resistant clothing.

#### Glove Recommendations

Wear appropriate chemical resistant gloves.

#### Respiratory Protection

A NIOSH approved respirator with organic vapor cartridges and N95 filters may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure.
**Section 9 - 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>Appearance</td>
<td>Low viscosity liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Amber</td>
</tr>
<tr>
<td>Odor</td>
<td>Petroleum odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Softening Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity (water = 1)</td>
<td>0.98 @ 100°F</td>
</tr>
<tr>
<td>Molecular Weight (Mn)</td>
<td>Not Available</td>
</tr>
<tr>
<td>VOC</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;500 °F</td>
</tr>
<tr>
<td>OSHA Flammability Class</td>
<td>Combustible</td>
</tr>
<tr>
<td>Minimum Explosive Concentration</td>
<td>Not available</td>
</tr>
<tr>
<td>KSt-value (bar x m/s)</td>
<td>N/A</td>
</tr>
<tr>
<td>Auto Ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density (air = 1)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt;1 (water = 1)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>&lt;1</td>
</tr>
<tr>
<td>KOC</td>
<td>Not available</td>
</tr>
<tr>
<td>Log KOW</td>
<td>Not available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Coeff. Water/Oil Dist</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2,000 to 5,000 cps. Brookfield</td>
</tr>
<tr>
<td>Taste</td>
<td>Not available</td>
</tr>
<tr>
<td>LEL</td>
<td>Not available</td>
</tr>
<tr>
<td>UEL</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Section 10 - Stability and Reactivity**

Reactivity
None known.

Chemical Stability
Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

Conditions to Avoid
Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials
Oxidizing materials, combustible materials

Hazardous Decomposition Products
Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Combustion: oxides of carbon, carbon monoxide, hydrocarbons.
**Section 11 - TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

- **Naphthalene (91-20-3)**
  - Oral LD50 Rat 1110 mg/kg
  - Dermal LD50 Rabbit 1120 mg/kg
  - Inhalation LC50 Rat >340 mg/m³ 1 h

**Information on Likely Routes of Exposure**

**Inhalation**

- May cause drowsiness and dizziness
- May cause respiratory irritation

**Ingestion**

- May be fatal if swallowed and enters airways

**Skin Contact**

- May cause damage to skin through prolonged or repeated exposure.

**Eye Contact**

- No information on significant adverse effects.

**Immediate Effects**

- Symptoms/effects may include mild skin irritation, mild eye irritation, nervous system damage, and respiratory tract irritation.

**Delayed Effects**

- May cause damage to skin through prolonged or repeated exposure.

**Medical Conditions Aggravated by Exposure**

- No data available.

**Irritation/Corrosivity Data**

- May cause respiratory irritation

**Respiratory Sensitization**

- No information available for the product.

**Dermal Sensitization**

- No information available for the product.
Material Name: Hydrocarbon Resin
LX®-2250 Resin

Germ Cell Mutagenicity
No information available for product.

Carcinogenicity

Component Carcinogenicity

<table>
<thead>
<tr>
<th>CAS # 91-20-3</th>
<th>Naphthalene</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH:</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
</tr>
<tr>
<td>IARC: Monograph 53 [1991] (related to Non-arsenical insecticides) (Group 2A (probably carcinogenic to humans))</td>
<td></td>
</tr>
<tr>
<td>IARC: Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))</td>
<td></td>
</tr>
<tr>
<td>NTP: Reasonably Anticipated to be a Human Carcinogen</td>
<td></td>
</tr>
<tr>
<td>DFG: Category 2 (considered to be carcinogenic for man)</td>
<td></td>
</tr>
<tr>
<td>OSHA: Present</td>
<td></td>
</tr>
</tbody>
</table>

Reproductive Toxicity
No information available for product.

Specific Target Organ Toxicity - Single Exposure
No information available for the product.

Specific Target Organ Toxicity - Repeated Exposure
May cause damage to skin through prolonged or repeated exposure.

Aspiration Hazard
None
**Section 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity**
Harmful to aquatic life with long lasting effects.

**Component Analysis - Aquatic Toxicity**

<table>
<thead>
<tr>
<th>CAS # 91-20-3</th>
<th>Naphthalene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</td>
<td>LC50 96 h Pimephales promelas 5.74 – 6.44 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 1.6 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 0.91 – 2.82 mg/L [static]; LC50 96 h Pimephales promelas 1.99 mg/L [static]; LC50 96 h Lepomis macrochirus 31.0265 mg/L [static]</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna 2.16 mg/L IUCLID; EC50 48 h Daphnia magna 1.96 mg/L [flow-through] EPA; EC50 48 h Daphnia magna 1.09 – 3.4 mg/L [static] EPA;</td>
</tr>
<tr>
<td>Algae:</td>
<td>72 Hr EC50 Skeletonema costatum: 0.4 mg/L</td>
</tr>
</tbody>
</table>

**Persistence and Degradability**
No information available for the product.

**Bioaccumulation**
No information available for the product.

**Mobility in Soil**
No information available for the product.

**Other Adverse Effects**
No information available for this product.
**Section 13 - DISPOSAL CONSIDERATIONS**

Disposal Methods
Dispose in accordance with all applicable regulations. Regulations vary. Consult local authorities before disposal.

Disposal of Contaminated Packaging
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

**Section 14 - TRANSPORT INFORMATION**

US DOT Information
Shipping Name: Not regulated for transport

Not DOT Hazardous in non-bulk packaging (Drums / Pails)

TDG Information
Shipping Name: Not regulated for transport

**Section 15 - REGULATORY INFORMATION**

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>SARA 313</th>
<th>CERCLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>0.1% de minimis concentration</td>
</tr>
<tr>
<td>CERCLA</td>
<td>100 If final RQ; 45.4 Kg final RQ</td>
<td></td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous categories
Acute Health: No
Chronic Health: No
Fire: No
Pressure: No
Reactive: No
U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Carc:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>Carcinogen, initial date 4/19/02</td>
</tr>
</tbody>
</table>

Canada Regulations

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on SDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Carc:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>1 %</td>
</tr>
</tbody>
</table>

Canadian WHMIS Information

WHMIS CLASSIFICATION: Not classified.

Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>US</th>
<th>CA</th>
<th>EU</th>
<th>AU</th>
<th>PH</th>
<th>JP</th>
<th>KR</th>
<th>CN</th>
<th>NZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modified Hydrocarbon Resin</td>
<td>Proprietary</td>
<td>Yes</td>
<td>DSL</td>
<td>Ex</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Antioxidant</td>
<td>6683-19-8</td>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Material Name: Hydrocarbon Resin
LX®-2250 Resin

* * *Section 16 - OTHER INFORMATION* * *

NFPA Ratings: Health: 2* Fire: 1 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS RATINGS:
Reactivity: 0
Pers. Prot.: B Minimum
Health: 1
Fire: 1
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe " = Chronic hazard

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Other Information
Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information.