* * *Section 1 – PRODUCT IDENTIFICATION* * *

Material Name:
Hydrocarbon Resin

Trade Name:
CUMAR® P-25 Resin

Recommended Uses of Product and Restrictions
Identified Uses: Adhesives, coatings, rubber
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 4
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
DANGER
Safety Data Sheet

Material Name: Hydrocarbon Resin

CUMAR® P-25 Resin

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

Precautionary Statement(s)

Prevention
Keep away from sources of ignition - No smoking. Do not breathe dust, mist, fumes or vapors. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection.

Response
In case of fire: Use appropriate media for extinction. 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 molten (hot) material may cause thermal burns.

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

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>63393-89-5</td>
<td>Coumarone-indene resin</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>68603-08-7</td>
<td>Naphtha, petroleum, arom.-contg.</td>
<td>Trade Secret</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 500 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.

**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, get medical attention. Do NOT induce vomiting.

**Most Important Symptoms/Effects**

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

**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**
Avoid generating vapors; vapors dispersed in air in sufficient concentrations, and in the presence of an ignition source are a potential explosion hazard. Vapors are heavier than air and can collect in low areas; vapors can travel to an ignition source and flash back.

**Combustion:** Upon combustion, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Fire Fighting Measures
Keep away from sources of ignition. Avoid inhalation of material or combustion by-products. Move material from fire area if it can be done without risk. Use extinguishing agents appropriate for surrounding fire. Dike for later disposal. 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
Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Wear protective gloves and eye/face protection. Keep away from all ignition sources. Avoid contact with skin and eyes. Always wear recommended personal protective equipment. Wear personal protective clothing and equipment, see Section 8. Take precautionary measures against static discharge. Dissipate static electricity during transfer by earthing (grounding and bonding) containers and equipment. Do not breathe vapor or mist.

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
**Component Exposure Limits**

<table>
<thead>
<tr>
<th>Component</th>
<th>Naphthalene 91-20-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>10 ppm TWA</td>
</tr>
<tr>
<td></td>
<td>15 ppm STEL</td>
</tr>
<tr>
<td>NIOSH</td>
<td>10 ppm TWA; 50 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td>15 ppm STEL; 75 mg/m³ STEL</td>
</tr>
<tr>
<td>Europe</td>
<td>10 ppm TWA; 50 mg/m³ TWA</td>
</tr>
<tr>
<td>OSHA (US)</td>
<td>10 ppm TWA; 50 mg/m³ TWA</td>
</tr>
<tr>
<td>Mexico</td>
<td>10 ppm TWA LMPE-PPT; 50 mg/m³ TWA LMPE-PPT</td>
</tr>
<tr>
<td></td>
<td>15 ppm STEL [LMPE-CT]; 75 mg/m³ STEL [LMPE-CT]</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 this 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 the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

**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**

| Physical State: | Viscous Liquid | Vapor Density (air = 1): | >1 |
| Appearance/ Color: | Amber | Evaporation Rate (water=1): | <1 |
| Odor: | petroleum odor | pH: | Not available |
| Odor Threshold: | Not available | Boiling Point: | ≥ 325° C. |
| R&B Softening Point, °C.: | 25 ± 5 | Boiling Point Range: | Not available |
| Melting Point: | Not available | Vapor Pressure: | Not available |
| Freezing Point: | Not available | Decomposition Temperature: | Not available |
| Specific Gravity (water = 1): | Approx. 1.06@ 25°C | KOC: | Not available |
| Molecular Weight (Mn): | Approx. 260 | Log KOW: | Not available |
| VOC: | Not available | Water Solubility: | Not available |
| Flash Point: | ≥330 °F | Coeff. Water/Oil Dist: | Not available |
| OSHA Flammability Class: | Combustible Liquid | Relative Density: | Not available |
| Minimum Explosive Concentration: | Not available | Viscosity: | Not available |
| KSt-value (bar x m/s): | Not available | Taste: | Not available |
| Auto Ignition Temperature: | Not available | LEL: | Not available |
| | | UEL: | Not available |

**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. Avoid generating dust. Avoid contact with molten material.

**Incompatible Materials**
strong oxidizing 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 and Chronic 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 LD50Rat 1110 mg/kg
  - Dermal LD50Rabbit 1120 mg/kg
  - Inhalation LC50Rat >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, respiratory tract irritation, and aspiration hazard.

**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
CUMAR® P-25 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:</td>
<td>Monograph 53 [1991] (related to Non-arsenical insecticides) (Group 2A (probably carcinogenic to humans))</td>
</tr>
<tr>
<td>IARC:</td>
<td>Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))</td>
</tr>
<tr>
<td>NTP:</td>
<td>Reasonably Anticipated to be a Human Carcinogen</td>
</tr>
<tr>
<td>DFG:</td>
<td>Category 2 (considered to be carcinogenic for man)</td>
</tr>
<tr>
<td>OSHA:</td>
<td>Present</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
May be fatal if swallowed and enters airways

**Section 12 - ECOLOGICAL INFORMATION**

Ecotoxicity
No information available for the product.

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>Algae:</td>
<td>72 Hr EC50 Skeletonema costatum: 0.4 mg/L</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>
</tbody>
</table>
Safety Data Sheet

Material Name: Hydrocarbon Resin
CUMAR® P-25 Resin

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: Elevated temperature liquid, n.o.s. at or above 100 °C and below its flash point including molten metals, molten salts, etc. (Contains: Naphtha (petroleum), aromatic-containing)
UN/NA #: 3257  Hazard Class: 9  Packing Group: III
Required Label(s): 9

Not regulated in Non-Bulk Packaging (Drums / Pails).

TDG Information
Shipping Name: Elevated temperature liquid, n.o.s. at or above 100 °C and below its flash point including molten metals, molten salts, etc. (Contains: Naphtha (petroleum), aromatic-containing)
UN #: 3257  Hazard Class: 9  Packing Group: III
Required Label(s): 9
**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>CAS Number</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>
<td>100 lb final RQ; 45.4 Kg final RQ</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous categories

Acute Health: No
Chronic Health: Yes
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>Naphtha, petroleum, arom.-contg</td>
<td>68603-08-7</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<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.

Naphthalene 91-20-3
Carc: Carcinogen, initial date 4/19/02

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>Chemical</th>
<th>CAS Number</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>Coumarone Indene Resin</td>
<td>63393-89-5</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>Naphtha, petroleum, arom.-contg.</td>
<td>68603-08-7</td>
<td>Yes</td>
<td>DSL</td>
<td>EIN##</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

EX**  Exempt Polymer
## List of Registered Substances  RLN EC No.: 271-635-0

** *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:
Health: 1* skin
Fire: 1
Reactivity: 0
Pers. Prot.: B Minimum

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.