**Section 1 – PRODUCT IDENTIFICATION**

**Material Name:**
Hydrocarbon Resin

**Trade Name:**
NEVASTAIN® 21 Nonstaining Antioxidant

**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**
- Combustible Liquid

**GHS LABEL ELEMENTS**

**Symbol(s)**
- None needed according to classification criteria.

**Signal Word**
- WARNING

**Hazard Statement(s)**

**Precautionary Statement(s)**

**Prevention**
- None needed according to classification criteria.

**Response**
- None needed according to classification criteria.

**Storage**
- None needed according to classification criteria.
Material Name: Hydrocarbon Resin
NEVASTAIN® 21 Nonstaining Antioxidant

Disposal
Dispose in accordance with all applicable regulations.

Hazard(s) Not Otherwise Classified
Contact with molten 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>61788-44-1</td>
<td>Phenol, styrenated (EC Number 262-975-0)</td>
<td>&gt;99.9%</td>
</tr>
<tr>
<td>108-95-2</td>
<td>Phenol (EC Number 203-632-7)</td>
<td>&lt;0.1%</td>
</tr>
</tbody>
</table>

Contaminants:
<0.1% free untreated phenol remains in the product

**Section 4 - FIRST-AID MEASURES**

Description of Necessary Measures

Inhalation
Supply fresh air. Consult a doctor in case of complaints.
If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

Skin Contact
Wash skin with soap and water thoroughly while removing contaminated clothing and shoes.

Eye Contact
Flush eyes with plenty of water for at least 15 minutes. Then consult a doctor.

Ingestion
Get medical attention

Most Important Symptoms/Effects

Acute
Mild skin irritation.

Delayed
No information on significant adverse effects.

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**
- Combustible 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.

**Combustion:** oxides of carbon, carbon monoxide, hydrocarbons.

**Fire Fighting Measures**
- Keep away from sources of ignition - No smoking. 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 recommended in Section 8 of the MSDS. 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, hot surfaces & direct sun light. Wear protective gloves and eye/face protection. Keep away from all ignition sources. Avoid contact with skin and eyes. Always wear recommended 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 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.

Incompatible Materials
oxidizing materials, combustible materials

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

Component Exposure Limits

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2 Phenol</td>
<td></td>
</tr>
<tr>
<td>PEL (USA) Long-term value: 19 mg/m³, 5 ppm, Skin</td>
<td></td>
</tr>
<tr>
<td>REL (USA) Short-term value: C60° mg/m³, C 15.6° ppm Long-term value: 19 mg/m³, 5 ppm *15-0min; Skin</td>
<td></td>
</tr>
<tr>
<td>TLV (USA) Long-term value: 19 mg/m³, 5 oom. Skin: BEI</td>
<td></td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Components with biological limit values:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2 Phenol</td>
<td></td>
</tr>
<tr>
<td>BEI (USA) 250 mg/g creatinine. Medium: urine / Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)</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 the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Individual Protection Measures, such as Personal Protective Equipment

General protective and hygienic measures:
Wash hands before breaks and at the end of work.

Eyes/Face Protection
Wear splash resistant safety goggles with a face shield.

Skin Protection
Wear appropriate chemical resistant clothing. Include boots and a protective suit if needed.

Glove Recommendations
Wear appropriate chemical resistant gloves. Recommended material: rubber, neoprene. The resistance of the glove material should be checked prior to the application.

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>Physical State:</th>
<th>Semi Viscous Liquid</th>
<th>Vapor Density (air = 1):</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Fluid</td>
<td>Evaporation Rate (water = 1):</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Color:</td>
<td>Light Yellow</td>
<td>pH:</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor:</td>
<td>Phenolic Like</td>
<td>Boiling Point:</td>
<td>232°C.</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Not available</td>
<td>Boiling Point Range:</td>
<td>Not Available</td>
</tr>
<tr>
<td>Softening Point:</td>
<td>Not Applicable</td>
<td>Decomposition Temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>Not available</td>
<td>Vapor Pressure:</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point:</td>
<td>Not available</td>
<td>KOC:</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity (water = 1):</td>
<td>1.07 @ 25°C</td>
<td>Log KOW:</td>
<td>DSP: 6.24</td>
</tr>
<tr>
<td>Molecular Weight (Mn):</td>
<td>Not available</td>
<td>(n-octanol/water):</td>
<td>TSP: 7.77</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>&gt;365 °F</td>
<td>Coeff. Water/Oil Dist:</td>
<td>Not available</td>
</tr>
<tr>
<td>OSHA Flammability Class:</td>
<td>Combustible Liquid</td>
<td>Relative Density:</td>
<td>Not available</td>
</tr>
<tr>
<td>Minimum Explosive Concentration:</td>
<td>Not available</td>
<td>Taste:</td>
<td>Not available</td>
</tr>
<tr>
<td>KSt-value (bar x m/s):</td>
<td>Not available</td>
<td>LEL:</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto Ignition Temperature:</td>
<td>Not available</td>
<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.

Incompatible Materials
Oxidizing materials, combustible materials

Hazardous decomposition products
Oxides of carbon, carbon monoxide, hydrocarbons, phenolic type compounds
Combustion: oxides of carbon, carbon monoxide, hydrocarbons.
**Section 11 - TOXICOLOGICAL INFORMATION**

Acute and Chronic Toxicity

Acute toxicity:

<table>
<thead>
<tr>
<th>LD/LC50 values that are relevant for classification:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>61788-44-1 Phenol, styrenated</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>108-95-2 phenol</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
</tr>
</tbody>
</table>

Information on Likely Routes of Exposure Inhalation

**Inhalation:**
No information on significant adverse effects.

**Ingestion**
No information on significant adverse effects.

**Skin Contact**
No information on significant adverse effects.

**Eye Contact**
No information on significant adverse effects.

**Immediate Effects**
No information on significant adverse effects.

**Delayed Effects**
No information on significant adverse effects.

**Medical Conditions Aggravated by Exposure**
No data available.

**Irritation/Corrosivity Data**
No information on significant adverse effects.

**Respiratory Sensitization**
No data available.

**Dermal Sensitization**
No data available.

**Germ Cell Mutagenicity**
No data available.
Carcinogenicity

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogenicity</th>
<th>IARC (International Agency for Research on Cancer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>phenol</td>
<td></td>
<td>108-95-2</td>
</tr>
<tr>
<td>Styrene</td>
<td></td>
<td>100-42-5</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td></td>
<td>100-41-4</td>
</tr>
</tbody>
</table>

Reproductive Toxicity
No data available.

Specific Target Organ Toxicity - Single Exposure
No data available.

Specific Target Organ Toxicity - Repeated Exposure
No data available.

Aspiration hazard
No data available.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Ecotoxicity
Harmful to aquatic life with lasting effects.

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Aquatic Toxicity</th>
<th>61788-44-1 Phenol, styrenated</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 (48 h)</td>
<td>DSP: &gt;0.249 mg/l (daphnia)</td>
</tr>
<tr>
<td>EC50 (72 h)</td>
<td>DSP: 0.326 mg/l (algae)</td>
</tr>
</tbody>
</table>

Persistence and Degradability
Not easily biodegradable.

Other Information:
21 days-NOEC-Reproduction, Daphnia Magna:
DSP: 115ug/l. TSP: 35ug/l: Absense of long term effect at the limit of water solubility

72h-NOEC-Algae:
DSP: 140ug/l, TSP: 5.15ug/l. Absense of long term effect at the limit of water solubility
Bioaccumulation
No information available for the product.

Mobility in Soil
No information available for the product.

General Notes:
Do not allow product to reach ground water, water course or sewage system. Toxic for aquatic organisms.

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

Other Adverse Effects:
No information available for this product

**Section 13 - DISPOSAL CONSIDERATIONS**

Disposal Methods
Dispose of contents/container in accordance with local/regional/national/international regulations.

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
UN/NA #: Not Regulated

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

TDG Information
Shipping Name: Not regulated for transport
UN#: Not Regulated

Not Hazardous in non-bulk packaging (Drums / Pails)
Material Name: Hydrocarbon Resin
NEVASTAIN® 21 Nonstaining Antioxidant

* * *Section 15 - REGULATORY INFORMATION* * *

U.S. Federal Regulations
Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

<table>
<thead>
<tr>
<th>Section 355 (extremely hazardous substances) &gt;0.1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 313 (Specific toxic chemical listings) with De Minimus Limit 0.1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2</td>
</tr>
</tbody>
</table>

TSCA (Toxic Substances Control Act):
Substance is listed.

Carcinogenic categories

<table>
<thead>
<tr>
<th>EPA (Environmental Protection Agency) &gt;0.1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NIOSH-Ca (National Institute for Occupational Safety and Health) &gt;0.1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance is not listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OSHA-Ca (Occupational Safety &amp; Health Administration) &gt;0.1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance is not listed</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:

Canadian WHMIS Information
WHMIS CLASSIFICATION: D2
Safety Data Sheet

Material Name: Hydrocarbon Resin
NEVASTAIN® 21 Nonstaining Antioxidant

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>Phenol, styrenated</td>
<td>61788-44-1</td>
<td>Yes</td>
<td>Yes</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>

**Section 16 - OTHER INFORMATION**

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

HMIS RATINGS:
- Health: 1
- Fire: 1
- Reactivity: 0
- Pers. Prot.: B Minimum

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; LOPL - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MAK - Maximum Concentration Value in the Workplace; MAK - Maximum Concentration Value in the Workplace; MAK - Maximum Concentration Value in the Workplace; 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.

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