Safety Data Sheet

Material Name: Hydrocarbon Resin Solution
VERSADIL® 1100

** *Section 1 – PRODUCT IDENTIFICATION* * **

Material Name:
Hydrocarbon Resin Solution

Trade Name:
VERSADIL® 1100

Recommended Uses of Product and Restrictions

Identified Uses: Coatings
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
Fax: 412-777-4234

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

Classification in accordance with 29 CFR 1910.1200
None needed according to classification criteria

GHS Label Elements

Symbol(s)
None needed according to classification criteria

Signal Word
None needed according to classification criteria

Hazard Statement(s)
None needed according to classification criteria

Precautionary Statement(s)

Prevention
None needed according to classification criteria

Response
None needed according to classification criteria
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Storage
None needed according to classification criteria

Disposal
Dispose in accordance with all applicable regulations.

***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>Proprietary Mixture</td>
<td>100</td>
</tr>
</tbody>
</table>

***Section 4 - FIRST-AID MEASURES***

Description of Necessary Measures

Inhalation
If adverse effects occur, remove to uncontaminated area. Call a POISON CENTER or doctor/physician if you feel unwell

Skin Contact
Wash with plenty of soap and water. Get medical attention if irritation develops or persists.

Eye Contact
Flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Ingestion
If a large amount is swallowed, get medical attention. Do NOT induce vomiting.

Most Important Symptoms/Effects

Acute
No information on significant adverse effects.

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**
Use carbon dioxide, regular dry chemical, regular foam or water.

**Unsuitable Extinguishing Media**
None known

**Special Hazard Arising from the Chemical**
May be ignited by heat, sparks or flames. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback.

**Hazardous Combustion Products**
Oxides of carbon

**Fire Fighting Measures**
Move container from fire area if it can be done without risk. Cool containers with water. 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 clothing and equipment, see Section 8.

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**
Eliminate all sources of ignition. Keep out of water supplies and sewers. Ground any equipment used in handling. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Prevent entry into waterways, sewers, basements, or confined areas. Use foam on spills to minimize vapors. Absorb with earth, sand or other non-combustible material and transfer to container. Collect spilled material in appropriate container for disposal. Use non-sparking tools. Large spills: Dike for later disposal. Reduce vapors with water spray. Dispose in accordance with all applicable regulations.

**Environmental Precautions**
Avoid release to the environment.
**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

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

**Component Exposure Limits**

<table>
<thead>
<tr>
<th>Vegetable oil mist</th>
<th>8008-89-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIOSH:</td>
<td>10 mg/m³ TWA total mist; 5 mg/m³ TWA respirable mist (related to Vegetable oil)</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>5 mg/m³ TWA mist, respirable fraction; 15 mg/m³ TWA mist, total (related to Vegetable oil)</td>
</tr>
<tr>
<td>Mexico:</td>
<td>10 mg/m³ TWA LMPE-PPT (except irritant oils) mist (related to Vegetable oil)</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**

**Eye/face protection**

Wear splash resistant safety glasses. Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection**

Wear appropriate chemical resistant clothing.

**Glove Recommendations**

Wear appropriate chemical resistant gloves.
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Respiratory Protection
A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Physical State: Liquid</th>
<th>Vapor Density (air = 1): &gt;1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance: Amber liquid</td>
<td>Vapor Pressure (mm Hg): &lt;1</td>
</tr>
<tr>
<td>Color: Amber</td>
<td>Evaporation Rate: &lt;1 (water = 1)</td>
</tr>
<tr>
<td>Odor: Vegetable oil / petroleum</td>
<td>pH: Not applicable</td>
</tr>
<tr>
<td>Odor Threshold: Not available</td>
<td>Boiling Point: Not available</td>
</tr>
<tr>
<td>Softening Point: Not applicable</td>
<td>Boiling Point Range: Not available</td>
</tr>
<tr>
<td>Melting Point: Not available</td>
<td>Decomposition Temperature: Not available</td>
</tr>
<tr>
<td>Freezing Point: Not available</td>
<td>KOC: Not available</td>
</tr>
<tr>
<td>Specific Gravity (water = 1): Approx. 0.94 @ 30°C</td>
<td>Log KOW: Not available</td>
</tr>
<tr>
<td>Molecular Weight (Mn): Not available</td>
<td>Water Solubility: Not available</td>
</tr>
<tr>
<td>Volatility by Weight: &lt;1%</td>
<td>Coeff. Water/Oil Dist: Not available</td>
</tr>
<tr>
<td>Flash Point: &gt;300 °F.</td>
<td>Relative Density: 7.8 pounds / gallon at 25°C.</td>
</tr>
<tr>
<td>OSHA Flammability Class: Combustible</td>
<td>Viscosity, Brookfield: 1,300 to 1,800 cps at 25°C.</td>
</tr>
<tr>
<td>Minimum Explosive Concentration: No data available</td>
<td>Taste: Not available</td>
</tr>
<tr>
<td>KSt-value (bar x m/s): Not applicable</td>
<td>LEL: Not available</td>
</tr>
<tr>
<td>Auto Ignition Temperature: Not available</td>
<td>UEL: Not available</td>
</tr>
</tbody>
</table>

**Section 10 - STABILITY AND REACTIVITY**

Reactivity
No reactivity hazard is expected

Chemical Stability
Stable under normal conditions of use

Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

Conditions to Avoid
Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Avoid contact with incompatible materials. Avoid contact with molten material.

Incompatible Materials
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.
Material Name: Hydrocarbon Resin Solution
VERSADIL® 1100

***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: None

**Information on Likely Routes of Exposure**

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

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

**Skin Contact**
May cause skin irritation.

**Eye Contact**
May cause eye irritation.

**Immediate Effects**
May cause eye irritation, skin irritation.

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

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

**Irritation/Corrosivity Data**
May cause eye irritation, skin irritation.

**Respiratory Sensitization**
No information available for the product.

**Dermal Sensitization**
No information available for the product.

**Germ Cell Mutagenicity**
No information available for product.

**Carcinogenicity**

**Component Carcinogenicity**
No information available for product
Reproductive Toxicity
No information available for the product.

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

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

Aspiration hazard
No information available for the product.

**Section 12 - ECOLOGICAL INFORMATION**

Component Analysis – Aquatic Toxicity
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.
Hazard Class: 9
UN/NA #: UN3257
Packing Group: III
Required Label(s): 3

Not regulated (non-hazardous) in non-bulk packaging (Drums / Pails)

TDG Information
Shipping Name: ELEVATED TEMPERATURE LIQUID, N.O.S.
Hazard Class: 9
UN#: UN3257
Packing Group: III
Required Label(s): 3

IATA Information:
Shipping Name: ELEVATED TEMPERATURE LIQUID, N.O.S.
Hazard Class: 9
UN#: UN3257
Packing Group: III
Required Label(s): 3

** Section 15 - REGULATORY INFORMATION **

U.S. Federal Regulations
This material does not contain any 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.

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: No  Chronic Health: No  Fire: No  Pressure: No  Reactivity: No
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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>Vegetable oil mists</td>
<td>8008-89-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Not regulated under California Proposition 65

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 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>Hydrocarbon Resin</td>
<td>Proprietary</td>
<td>Yes</td>
<td>Yes</td>
<td>Exempt</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Vegetable Oil(s)</td>
<td>Proprietary</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
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard
Material Name: Hydrocarbon Resin Solution
VERSADIL® 1100

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; CLP - Classification, Labeling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; 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; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; 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; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; 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.

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