

# Safety Data Sheet

Material Name: Hydrocarbon Resin Solution  
CUMAR<sup>®</sup> R-16A Resin, 70% Solution in Mineral Spirits



## \*\*\*Section 1 – PRODUCT IDENTIFICATION\*\*\*

### Material Name:

Hydrocarbon Resin Solution

### Trade Name:

CUMAR<sup>®</sup> R-16A Resin, 70% Solution in Mineral Spirits

### 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

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)

Aspiration Hazard, Category 1

### GHS LABEL ELEMENTS

#### Symbol(s)



#### Signal Word

DANGER

#### Hazard Statement(s)

Flammable liquid and vapor

May cause drowsiness and dizziness

May cause respiratory irritation

May cause damage to skin through prolonged or repeated exposure.

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## Precautionary Statement(s)

### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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\*\*\*

CAS	Component	Percentage
68131-77-1	Petroleum Hydrocarbon Resin	Proprietary
64742-52-5	Distillates, petroleum, hydrotreated heavy naphthenic	Proprietary
64742-47-8	Mineral Spirits	30

## \*\*\*Section 4 - FIRST-AID MEASURES\*\*\*

### Description of Necessary Measures

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if not breathing. Get immediate medical attention.

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## 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.

<b>* * *Section 5 - FIRE-FIGHTING MEASURES* * *</b>
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## 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.

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### 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

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

#### Component Exposure Limits

None

#### 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

##### 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.

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<b>***Section 9 - PHYSICAL AND CHEMICAL PROPERTIES***</b>
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<b>Physical State:</b>	Liquid	<b>Vapor Density (air = 1):</b>	4.8 (based on mineral spirits)
<b>Appearance/ Color:</b>	Amber	<b>Evaporation Rate:</b>	<1 (water = 1)
<b>Odor:</b>	petroleum odor	<b>pH:</b>	Not available
<b>Odor Threshold:</b>	Not available	<b>Boiling Point:</b>	Approx. 300°F. (mineral spirits)
<b>R&amp;B Softening Point, °C.:</b>	Not applicable	<b>Boiling Point Range:</b>	Not Available
<b>Melting Point:</b>	Not available	<b>Vapor Pressure:</b>	Not available
<b>Freezing Point:</b>	Not available	<b>Decomposition Temperature:</b>	Not available
<b>Specific Gravity (water = 1):</b>	Approx. 0.99 @ 30°C	<b>KOC:</b>	Not available
<b>Molecular Weight (Mn):</b>	Not available	<b>Log KOW:</b>	Not available
<b>VOC:</b>	30%	<b>Water Solubility:</b>	Not available
<b>Flash Point:</b>	≈105 °F (based on mineral spirits)	<b>Coeff. Water/Oil Dist:</b>	Not available
<b>OSHA Flammability Class:</b>	Combustible Liquid	<b>Relative Density:</b>	Not available
<b>Minimum Explosive Concentration:</b>	Not available	<b>Viscosity:</b>	80 To 180 poises at 25°C.
<b>KSt-value (bar x m/s):</b>	Not available	<b>Taste:</b>	Not available
<b>Auto Ignition Temperature:</b>	≥230°C (based on mineral spirits)	<b>LEL:</b>	1.0%(V) (based on mineral spirits)
		<b>UEL:</b>	7.0%(V) (based on mineral spirits)

<b>***Section 10 - STABILITY AND REACTIVITY***</b>
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**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. Containers may rupture or explode if exposed to heat. Avoid contact with incompatible materials. 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.

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## \*\*\*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:

##### Mineral Spirits (64742-88-7)

Inhalation LC50 Rat >5.28 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg

### 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.

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### Dermal Sensitization

No information available for the product.

### Germ Cell Mutagenicity

No information available for product.

### Carcinogenicity

#### Component Carcinogenicity

<b>CAS # 64742-52-5</b>	<b>Distillates, petroleum, hydrotreated heavy naphthenic</b>
ACGIH:	A2 – Suspected Human Carcinogen (related to Untreated and mildly treated oils)
IARC:	Monograph 100F [2012]; Supplement 7 [1987]; Monograph 33 [1984] (related to Untreated and mildly-treated oils) (Group 1 (carcinogenic to humans ))
OSHA:	Present (related to Untreated and mildly-treated oils)
<b>Note:</b>	This component is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346.

### 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

No information available for the product.



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### \*\*\*Section 12 - ECOLOGICAL INFORMATION\*\*\*

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

#### Component Analysis - Aquatic Toxicity

<b>CAS # 64742-47-8</b>	<b>Mineral Spirits</b>
Fish:	96 Hr LC50 Pimephales promelas: 800 mg/L [static]
Algae:	96 Hr EC50 Pseudokirchneriella subcapitata: 450 mg/L
Invertebrate:	48 Hr EC50 Daphnia magna: >100 mg/L
<b>CAS # 64742-52-5</b>	<b>Distillates, petroleum, hydrotreated heavy naphthenic</b>
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID

#### 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.

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### \*\*\*Section 14 - TRANSPORT INFORMATION\*\*\*

#### US DOT Information

**Shipping Name:** Resin solution, flammable (Contains: Petroleum Hydrocarbon Resin)  
**UN/NA #:** 1866 **Hazard Class:** 3 **Packing Group:** III  
**Required Label(s):** 3  
**Not regulated in non-bulk packaging (Drums / Pails).**

#### TDG Information

**Shipping Name:** Resin solution, flammable (Contains: Petroleum Hydrocarbon Resin)  
**UN #:** 1866 **Hazard Class:** 3 **Packing Group:** III

#### IATA Information

**Shipping Name:** UN1866, Resin Solution, Hazard Class 3, PGIII

### \*\*\*Section 15 - REGULATORY INFORMATION\*\*\*

#### U.S. Federal Regulations

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

#### 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:

Component	CAS	CA	MA	MN	NJ	PA
Mineral Spirits	64742-47-8	No	No	No	Yes	No
Distillates, petroleum, hydrotreated heavy naphthenic	64742-52-5	No	No	Yes	No	No

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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 MSDS contains all of the information required by the CPR.

### Canadian WHMIS Ingredient Disclosure List (IDL)

None of the components of this material are on Canadian WHMIS Ingredient Disclosure List.

### Canadian WHMIS Information

WHMIS CLASSIFICATION: B3

### Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Petroleum Hydrocarbon Resin	68131-77-1	Yes	DSL	Ex**	Yes	Yes	No	Yes	Yes	Yes
Additive	64742-52-5	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
Mineral Spirits	64742-47-8	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes

Ex\*\* Exempt polymer

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### \*\*\*Section 16 - OTHER INFORMATION\*\*\*

**NFPA Ratings: Health: 2 Fire: 2 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### HMIS RATINGS:

**Health: 2**

**Fire: 2**

**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; 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.