

Safety Data Sheet

Material Name: Hydrocarbon Resin
LX[®]-2181 Resin



Section 1 – PRODUCT IDENTIFICATION

Material Name:

Hydrocarbon Resin

Trade Name:

LX[®]-2181 Resin

Recommended Uses of Product and Restrictions

Identified Uses: Adhesives, coatings, rubber, 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 29 CFR 1910.1200

Combustible Dust

GHS LABEL ELEMENTS

Symbol(s)

None needed according to classification criteria.

Signal Word

WARNING

Hazard Statement(s)

May form combustible dust concentrations in air

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Precautionary Statement(s)

Prevention

None needed according to classification criteria.

Response

None needed according to classification criteria.

Storage

None needed according to classification criteria.

Disposal

Dispose of contents / container in compliance with local / regional / national / international regulations.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component	Percentage
68131-77-1	Petroleum Hydrocarbon Resin	97 to 100
64742-52-5	Additive	0 to 3
6683-19-8	Inhibitor: Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester	0.10

Section 4 - FIRST-AID MEASURES

Description of Necessary Measures

Inhalation

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 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. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention

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Ingestion

Call a Poison Center or doctor/physician if you feel unwell. Rinse mouth.

Most Important Symptoms/Effects

Acute

Mild skin irritation. 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

Dry chemical, carbon dioxide, foam, water spray

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Special Hazard Arising from the Chemical

WARNING!

Handling this material may create combustible dust which may be hazardous when finely divided and suspended in air. Combustible dust clouds can explode with destructive forces if ignited. Combustible dust clouds can be ignited by all common ignition sources including static electricity. Follow recognized grounding and bonding procedures. Keep away from heat, hot surfaces, sparks and open flame. Use with adequate ventilation. Minimize dust accumulation on surfaces.

Combustion Products: 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.

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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

Avoid generating dust. 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 and sewers. Collect spilled material in appropriate container for disposal. Do not allow to enter into ground-water, surface water or drains.

Environmental Precautions

Avoid generating dust. Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood. Keep away from all ignition sources. Do not breathe dust. Use methods to minimize dust. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using this product. Always wear recommended personal protective equipment. Wear personal protective clothing and equipment, see Section 8. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Take precautionary measures against static discharge. Dissipate static electricity during transfer by earthing (grounding and bonding) containers and equipment.

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.

Incompatibilities: strong oxidizing materials

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Resin	Petroleum Hydrocarbon Resin inhalable & respirable particles & dust
ACGIH:	10 mg/m ³ TWA (inhalable particles, recommended);
	3 mg/m ³ TWA (respirable particles, recommended, related to Particulates not otherwise classified (PNOC))
OSHA:	10 mg/m ³ TWA (total dust);
	5 mg/m ³ TWA (respirable dust) (respirable fraction, related to Particulates not otherwise classified (PNOC))

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Biological limit value

There are no biological limit values for any of this product's components.

Appropriate Engineering Controls

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. It is recommended that all dust 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 dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust 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. Recommended material: cotton, leather, rubber, neoprene.

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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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Vapor Density (air = 1):	Not available
Appearance:	Flakes / Pastilles	Evaporation Rate:	Not available
Color:	Amber	pH:	Not available
Odor:	petroleum odor	Boiling Point:	Not available
Odor Threshold:	Not available	Boiling Point Range:	Not Available
Softening Point:	140 ± 5	Decomposition:	Not available
Melting Point:	Not Available	KOC:	Not available
Freezing Point:	Not Available	Log KOW:	Not available
Specific Gravity (water = 1):	Approx. 1.08 @ 25°C	Water Solubility:	Not available
Molecular Weight (Mn):	620	Coeff. Water/Oil Dist:	Not available
(Mw):	1,900		
VOC:	Not available	Density:	Not available
Flash Point:	>340 °F	Viscosity, Cps. Brookfield:	8,860 @ 190°C. 1,350 @ 210°C. 415 @ 230°C.
OSHA Flammability Class:	Combustible Solid	Taste:	Not available
Minimum Explosive Concentration:	10 to 20 g/m3 (MEC)	LEL:	Not available
KSt-value (bar x m/s):	282 – 344 bar.m/s	UEL:	Not available
Auto Ignition:	360 °C (Approx.)	Vapor Pressure:	Not Available

Section 10 - STABILITY AND REACTIVITY
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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. Avoid contact with incompatible materials.

Incompatible Materials

Oxidizing materials, combustible materials

Hazardous decomposition products

Oxides of carbon, carbon monoxide, hydrocarbons

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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: None

Information on Likely Routes of Exposure Inhalation

Inhalation

Inhalation of dust may irritate upper respiratory tract

Ingestion

No information on significant adverse effects.

Skin Contact

May cause irritation

Eye Contact

Causes eye irritation

Immediate Effects

No information on significant adverse effects.

Delayed Effects

No information on significant adverse effects.

Medical Conditions Aggravated by Exposure

No information on significant adverse effects

Irritation/Corrosivity Data

Eye irritation, Mild skin irritation

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Germ Cell Mutagenicity

No data available.

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Carcinogenicity

Component Carcinogenicity

CAS # 64742-42-5	Distillates, petroleum, hydrotreated heavy naphthenic
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)
Note:	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 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

May be harmful to aquatic life.

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

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Component Analysis - Aquatic Toxicity

CAS # 64742-52-5	Distillates, petroleum, hydrotreated heavy naphthenic
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID

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

TDG Information

Shipping Name: Not regulated for transport

UN#: Not Regulated

IATA Information:

UN/NA #: Not Restricted (Not regulated for transport)

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* * *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, 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
Distillates, petroleum, hydrotreated heavy naphthenic	64742-52-5	No	No	Yes	No	No
Inhibitor **	6683-19-8	No	No	No	No	No

** Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2- bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl] -1,3-propanediyl ester

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 Ingredient Disclosure List (IDL)

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

Canadian WHMIS Information

Not classified

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	Yes	Yes	Yes	Yes
Inhibitor	6683-19-8	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

CAS #6683-19-8: Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2- bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl] -1,3-propanediyl ester

Ex** Exempt Polymer

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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; 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.