


NATROCHEM, INC.

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**MATERIAL SAFETY
DATA SHEET**
N ROSIN OIL DLC®-A

Date Revised: April 20, 1999

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SECTION I - PRODUCT IDENTIFICATION

 TRADE NAME: N Rosin Oil DLC-A
 CHEMICAL NAME: Retene Rosin Oil on Silicon Dioxide

HMIS RATING	
Health	1
Flammability	1
Reactivity	0

SECTION II - HAZARDOUS INGREDIENTS

The component(s) listed below is identified as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

INGREDIENT	CAS REGISTRY	PERCENT
Silicon Dioxide	7631-86-9	28-30
Rosin Oil	68425-08-1	70-74

SECTION III - PHYSICAL DATA

Boiling Point: N/D	Specific Gravity: 1.163
Vapor Pressure (mm Hg): Nil @ 77°F	Percent Volatiles: 0
Vapor Density (Air = 1): 0 @ 77°F	Evaporation Rate: N/D
Solubility in Water: Insoluble	
Appearance and Odor: Off-white, free flowing powder with slight rosin odor.	

SECTION IV - FIRE & EXPLOSION DATA

 FLASH POINT (Method Used): 326°F (COC)
 FLAMMABLE LIMITS: N/E
 AUTOIGNITION TEMPERATURE: N/E

 EXTINGUISHING MEDIA: CO₂, dry chemical, chemical foam, water fog, or mist.

SPECIAL FIRE FIGHTING PROCEDURES: Avoid use of water, other than light spray. Firefighters and others exposed to products of combustion should wear self-contained breathing apparatus.

UNUSUAL FIRE & EXPLOSION HAZARDS: None Known.

SECTION V - PERMISSIBLE EXPOSURE LIMITS & TOXICITY

 Silicon Dioxide: OSHA: 6 mg/m³ (total dust), 8 hr. TWA; 29 CFR 1910.1000 (rev. 3/1/89). PPG Internal Permissible Exposure Limit (IPEL); Synthetic Precipitated Silicate: 6 mg/m³ (respirable dust), 8 hr. TWA.

MARKETED BY

**HARWICK STANDARD
DISTRIBUTION CORPORATION**

 80 S. Seiberling Street - Akron, Ohio 44305
 Akron - Chicago - Northeast - Southern - West Coast

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SECTION VI - HEALTH HAZARD DATA

CHRONIC HEALTH EFFECTS: An epidemiological study was conducted which included 166 precipitated silica workers who had been exposed for an average of 18 years. No adverse effects were noted in complete medical examination (including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with smoking and age but not with the degree or duration of dust exposure. Laboratory studies have also been conducted in small animals via inhalation to levels of precipitated silica dust of up to 126 mg/m³ for periods from six months to two years. Although precipitated silica was temporarily deposited in the animals lungs, most of the deposited material was cleared soon after the dust exposure ended. The results of all studies performed by, or known to, PPG indicate a very low order of pulmonary activity for synthetic precipitated silica.

PRIMARY ROUTE OF ENTRY- Inhalation, eye, skin.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: None

NTP: No

IARC: No

OSHA: No

EFFECTS OF EXPOSURE-

EYES- Mildly irritating. Excessive contact with powder can cause drying of mucous membranes of eyes due to absorption of moisture and oils.

SKIN- Mildly irritating.

INHALATION- Nuisance dust. Excessive contact with powder can cause drying of mucous membranes of nose and throat due to absorption of moisture and oils. This material can also cause nasal irritation and nosebleeds.

INGESTION- May cause gastrointestinal disorders.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE- Persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection.

SECTION VII - EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: Immediately rinse with clean water for 15 minutes. Retract eyelids often. If irritation persists, seek medical attention.

SKIN CONTACT: Immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. Seek medical attention if ill effect or irritation develops.

MOLTEN ROSIN ON SKIN: Cool affected area as soon as possible in cold water. Be sure to leave rosin in place. Smother the rosin and affected area with Furacin soluble dressing. Cover affected area with protective bandage. As burn heals, rosin will loosen from flesh and flake off. Severe burns require additional medical treatment.

INHALATION: If overcome by exposure, remove victim to fresh air. Consult a physician if irritation persists.

INGESTION: DO NOT induce vomiting. Consult a physician.

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SECTION VIII - REACTIVITY DATA

STABILITY- Stable.**MATERIALS TO AVOID-** Avoid alteration of product properties before reuse. Calcining, which may result in crystalline formation or mixing with additives may alter toxicological properties. Strong oxidizing agents or alkali.**CONDITIONS TO AVOID-** Avoid high temperatures (> 800 C) treatment, open flames.**HAZARDOUS DECOMPOSITION PRODUCTS-** Thermal decomposition may produce oxides of carbon and other unidentified organic compounds.**HAZARDOUS POLYMERIZATION-** Will not occur.

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: MINIMIZE SPILL AREA. Vacuum spill material and place in closed plastic bags for disposal.**WASTE DISPOSAL METHOD:** In accordance with local, state, and federal regulations.

SECTION X - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use a respirator such as 3M 9900 or equivalent for protection against pneumoconiosis producing dusts.**VENTILATION:** Provide explosion proof ventilation as required to control airborne dust levels. The sum total of all ingredients may emit vapors during normal processing. All possible health effects are not known and individual sensitivities will vary. Effective exhaust ventilation should always be provided to draw dust, fumes and vapors away from workers to prevent routine inhalation. Ventilation should be adequate to maintain ambient workplace atmosphere below the limits listed in Section V.**PROTECTIVE GLOVES:** Impervious gloves to protect against contact with product.**EYE PROTECTION:** Safety goggles.**OTHER PROTECTIVE EQUIPMENT:** Protective clothing, eye wash station, safety shower.

SECTION XI - SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Handling can create explosive dust clouds. Eliminate ignition sources, use explosive proof equipment. Conveying and processing equipment should be spark-proof, well bonded and grounded. Avoid dust accumulations.**OTHER PRECAUTIONS:** Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before reuse.

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SECTION XII - ENVIRONMENTAL INFORMATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

CAS REGISTRY #	CHEMICAL NAME	PERCENT BY WEIGHT
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NONE.

This information must be included in all MSDS's that are copied and distributed for this material.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102):
No RQ for product or any constituent greater than 1% or 0.1% (carcinogen).

Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-313):
No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312):

Silicon Dioxide- Acute Hazard
Rosin Oil- Acute and chronic hazard (Irritant, eye, and skin hazard).

The components of this product are included on the TSCA Chemical Substance Inventory.

TRANSPORTATION: Not regulated.

SECTION XIII - OTHER INFORMATION

Revision Note: Review of raw material MSDS(s)

Prepared by: James L. Pye, Jr.

Title: Safety Coordinator

N/A = Not applicable N/D = Not determined N/DA = No Data Available

N/E = Not established

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