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SUPERSEDES: 928 6755 0100 VER: 11

MATERIAL SAFETY DATA SHEET

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1 PRODUCT IDENTIFICATION

PRODUCT NAME VINSOL® NVX SOAP
CHEMICAL/COMMON NAME dark rosin blend
CAS NUMBER mixture

2 COMPOSITION / INFORMATION ON INGREDIENTS

OSHA Hazardous Ingredient	CASRN	Amount
sodium hydroxide	1310-73-2	10.5 %

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW WARNING!

May cause severe eye irritation.
Causes skin irritation.
Inhalation may cause respiratory tract irritation.
Static charges generated by emptying package in or near flammable vapors may cause flash fire.
May form flammable dust-air mixtures.

POTENTIAL HEALTH EFFECTS

Ingestion may cause irritation of the mouth, throat, and gastrointestinal tract.
Prolonged or repeated contact may cause skin irritation and may cause skin sensitization (allergic reaction) in susceptible individuals.

Refer to Section 5 for Hazardous Combustion Products, and Section 10 for Hazardous Decomposition/Hazardous Polymerization Products.

4 FIRST AID MEASURES

SKIN

Wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention. Thoroughly wash clothing before reuse.

EYE

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

INHALATION

Remove to fresh air. Get medical attention if nasal, throat or lung irritation develops.

INGESTION

Do NOT induce vomiting. Get immediate medical attention.

NOTES TO PHYSICIAN

The irritation caused by this product is due to alkalinity.

This product contains rosin or a rosin derivative. Rosin and some of its derivatives have been reported to cause an allergic skin reaction (sensitization) in susceptible individuals after repeated or prolonged skin contact.

PRODUCT NAME VINSOL® NVX
MSDS NUMBER 928 6755 0100 VERSION 12

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray, dry chemical, foam, carbon dioxide or clean extinguishing agents may be used on fires involving this product.

FIRE FIGHTING PROCEDURES

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires involving this product.

Use water to keep fire-exposed containers cool.

CONDITIONS TO AVOID

None known.

HAZARDOUS COMBUSTION PRODUCTS

If heated to combustion, the following substances may be formed: carbon monoxide , carbon dioxide , aldehydes , carboxylic acids and smoke

AUTOIGNITION TEMPERATURE 650 ° F

6 ACCIDENTAL RELEASE MEASURES

Ventilate area. Avoid dust formation. If product is not contaminated, scoop into clean containers for use. If product is contaminated, scoop into containers, and dispose appropriately. In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

7 HANDLING & STORAGE

GENERAL MEASURES

Ground all equipment.

Blanket vessel with inert gas when emptying bags where flammable vapors may be present.

Ground operator and pour material slowly into conductive, grounded chute.

Store in a cool, dry, well-ventilated area at approximately 20° C (68° F).

Keep container closed when not in use.

Control inventory.

Rotate stock periodically.

Use oldest material first.

MATERIALS OR CONDITIONS TO AVOID

Avoid conditions that generate dust; product may form flammable dust-air mixtures.

Avoid emptying package in or near flammable vapors; static charges may cause flash fire.

Keep away from heat, flame, sparks and other ignition sources.

Spontaneous heating may occur if stored in a non-ventilated area at elevated temperatures.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

WORK PRACTICES & ENGINEERING CONTROLS

Eyewash fountains and safety showers should be easily accessible.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.

GENERAL HYGIENIC PRACTICES

Avoid contact with eyes, skin, and clothing.

Avoid breathing dust or fumes.

Handle in areas with adequate ventilation.

Do not swallow.

Avoid contamination of food, beverages, or smoking materials.

Wash thoroughly after handling, and before eating, drinking or smoking.

Remove contaminated clothing promptly and clean thoroughly before reuse.

RECOMMENDED EXPOSURE LIMITS

ACGIH - Occupational Exposure Limits - Ceilings

sodium hydroxide 2 mg/m3 Ceiling

OSHA - Vacated PELs - Ceilings

sodium hydroxide 2 mg/m3 Ceiling

PERSONAL PROTECTIVE EQUIPMENT

Chemical goggles

Impervious gloves (neoprene recommended)

Appropriate protective clothing

Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacturers recommendations.

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE

Eliminate ignition sources and prevent build-up of static electrical charges.

Completely isolate and thoroughly clean all equipment, piping, or vessels before beginning maintenance or repairs.

Keep area clean.

9 PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE:	powder
COLOR:	brown
ODOR:	soapy
Specific Gravity	0.4
Percent Volatile	negligible at 68° F
Vapor Pressure	negligible at 68° F
Solubility in Water	soluble in water
pH Value	10.6 (10% solution)

10 STABILITY & REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS

None known.

HAZARDOUS POLYMERIZATION

Not anticipated under normal or recommended handling and storage conditions.

GENERAL STABILITY CONSIDERATIONS

Stable under recommended handling and storage conditions.

INCOMPATIBLE MATERIALS

None known

11 TOXICOLOGICAL INFORMATION

CARCINOGENICITY INFORMATION

Not listed as a carcinogen by NTP. Not regulated as a carcinogen by OSHA. Not evaluated by IARC.

REPORTED HUMAN EFFECTS

No human toxicity studies have been carried out with this product. Based on pH, may cause skin, eye, respiratory, or gastrointestinal irritation.

COMPONENT - sodium hydroxide: Can cause severe eye irritation and corrosion with damage to the cornea, conjunctiva and scleral tissues. Can cause burns or corrosion of skin. Inhalation causes severe respiratory irritation, and prolonged exposures can cause necrosis of nasal passages and edema of lungs. Oral ingestion of less than 10 grams is lethal to adult humans. Oral ingestion can cause severe pain, vomiting, diarrhea, collapse and gastric or esophageal perforation, glottic edema, and aspiration pneumonitis can result.

COMPONENT - Rosin and some rosin derivatives: Reported to cause an allergic skin reaction (sensitization) in susceptible individuals after repeated or prolonged contact.

REPORTED ANIMAL EFFECTS

No animal toxicity studies have been carried out with this product.

COMPONENT - sodium hydroxide: Aqueous solutions of >1.0% can cause severe damage including destruction (necrosis) of tissues, including eyes, skin, mucous membranes and gastrointestinal tract, in laboratory animals. Inhalation of aerosol mists by rats resulted in pulmonary damage and death.

MUTAGENICITY/GENOTOXICITY INFORMATION

No mutagenicity studies have been carried out with this product.

12 ECOLOGICAL INFORMATION

AQUATIC TOXICITY

Acute aquatic 96-hour LC50 (zebra fish): 5.2 mg/l.

13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Incineration in accordance with applicable regulations is the recommended disposal method. Landfilling in a permitted solid or hazardous waste facility, meeting technical regulatory requirements, is a suitable alternative. Disposal should be in accordance with applicable Federal, State and local regulations.

14 TRANSPORT INFORMATION

GENERAL

This product is not subject to DOT regulations.

For specific information regarding transportation of this product, please call the Hercules representative at (905) 279-3338.

15 REGULATORY INFORMATION

CHEMICAL INVENTORIES

U.S. TSCA: The components of this product are included on the TSCA Inventory.

European EINECS : Included on EINECS list.

Canadian CEPA : Included on DSL Inventory.

Korean KECL : Included on KECL Inventory.

SARA TITLE III - SECTIONS 302/304

This product is not an Extremely Hazardous Substance subject to reporting under 40CFR355.

SARA TITLE III - SECTION 311 AND 312

HC-1: Acute health hazard

HC-3: Fire hazard

SARA TITLE III - SECTION 313

This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.

CERCLA

CERCLA/SARA - Hazardous Substances and their Reportable Quantities

sodium hydroxide

1000 lb final RQ; 454 kg final RQ

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VINSOL® NVX

MSDS NUMBER

928 6755 0100

VERSION 12

4 / 5

RCRA

This product is not a hazardous waste as listed in 40CFR261.33. It does not exhibit any of the hazardous characteristics listed in 40CFR261, Subpart C.

16 OTHER INFORMATION**HMIS RATINGS:**

Health 2 Moderate Hazard
Flammability 1 Slight Hazard
Reactivity 0 Minimal Hazard

LIST OF ACRONYMS

ACGIH: American Conferences of Governmental Industrial Hygienists
AIHA WEEL: American Industrial Hygienists Association-Workplace Environmental Exposure Level
ANSI: American National Standards Institute
CASRN: Chemical Abstracts Service Registry Number
CEPA: Canadian Environmental Protection Act
CERCLA: Comprehensive Emergency Response, Compensation and Liability Act
DSL: Domestic Substances List (Canadian)
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
NDSL: Non-Domestic Substances List (Canadian)
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit (OSHA)
RCRA: Resource Conservation and Recovery Act
RQ: Reportable Quantity
SARA: Superfund Amendment Reauthorization Act
STEL: Short-Term Exposure Limit
TLV: Threshold Limit Values (registered trademark of ACGIH)
TPQ: Threshold Planning Quantity
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average

DISCLAIMER

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

MSDS STATUS

Supersedes Date 10/08/2003
MSDS Revision(s) Section 4