



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

## 1 Identification

- **Product identifier**
- **Trade name:** **VINSOL® NVX**
- **Product Description** resinates
- **Article number:** 101303
- **Application of the substance / the mixture**  
Air entraining agent in cements, mortars, and concrete to improve strength, workability, and freeze-thaw resistance  
Asphalt emulsifier for anionic, slow setting emulsions for paving, surfacing, and sealing applications
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Pinova, Inc.  
2801 Cook Street  
Brunswick, Georgia, USA 31520  
MSDS@pinovasolutions.com
- **Information department:**  
Pinova, Inc. - Regulatory Affairs Department  
msds@pinovasolutions.com
- **Emergency telephone number:**  
Within USA and Canada: 1-800-CHEMTREC (424-9300)  
Outside the USA and Canada: 1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



Skin Irrit. 2      H315 Causes skin irritation.  
Eye Irrit. 2B      H320 Causes eye irritation.  
Combustible Dust      May form combustible dust concentrations in air.

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**  
H315+H320 Causes skin and eye irritation.  
May form combustible dust concentrations in air.

(Contd. on page 2)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

Trade name: VINSOL® NVX

(Contd. of page 1)

### Precautionary statements

- P202 Do not handle until all safety precautions have been read and understood.
- P234 Keep only in original container.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 In case of inadequate ventilation wear respiratory protection.
- P301+P312 IF SWALLOWED: Call a doctor if you feel unwell.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P304+P312 IF INHALED: Call a doctor if you feel unwell.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P314 Get medical advice/attention if you feel unwell.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P402+P404 Store in a dry place. Store in a closed container.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Information pertaining to particular dangers for man and environment:

#### 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.

### Classification system:

#### NFPA ratings (scale 0 - 4)



#### HMS-ratings (scale 0 - 4)



#### Other hazards

#### Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

US

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

Trade name: VINSOL® NVX

(Contd. of page 2)

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:**

Mixture of the substances listed below with nonhazardous additions.


CAS No. 61790-51-0 / EINECS 263-144-5: Resin acids and Rosin acids, sodium salts - 94,8 - 99,8%

CAS No. 1344-09-8 / EINECS 215-687-4: Sodium Silicate - 0,2%

CAS No. 7732-18-5 / EINECS 231-791-2: Water - 0,0 - 4,5%

- **Dangerous components:**

Sodium hydroxide      CASRN 1310-73-2      ≤0.5%

CAS: 1310-73-2	sodium hydroxide	 Skin Corr. 1A, H314	≤ 0.5%
EINECS: 215-185-5			

- **Additional information:**

This product is considered hazardous according to the OSHA Hazard Communication Standard 29CFR1910.1200 due to flammable dust potential.

As Pinova, Inc. interprets the Workplace Hazardous Materials Information System (WHMIS) 2015, this product should be considered a controlled product due to the potential presence of combustible dust. If dispersed in air, the fine particles may catch fire if ignited. This SDS contains valuable information important to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users/handlers of this product.

## 4 First-aid measures

- **Description of first aid measures**

- **After inhalation:** Remove to fresh air. Get medical attention if nasal, throat or lung irritation develops.

- **After skin contact:**

Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation persists. Thoroughly wash clothing before reuse. See Note to Physician.

- **After eye contact:**

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

- **After swallowing:** Do NOT induce vomiting. Get immediate medical attention. See Note to Physician.

- **Information for doctor:**

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.

- **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

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

- **Special hazards arising from the substance or mixture**

If heated to combustion, the following substances may be formed:

Carbon monoxide (CO)

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

**Trade name: VINSOL® NVX**

(Contd. of page 3)

Carbon Dioxide (CO<sub>2</sub>)

Aldehydes

Carboxylic acids

Smoke

- **Advice for firefighters**

- **Protective equipment:**

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.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

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.

- **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:** Pick up mechanically.

- **Reference to other sections** No dangerous substances are released.

## 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

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.

For large bags (1000 lbs or greater) a ground cable **MUST** be attached to the bag ground connection.

- **Information about protection against explosions and fires:**

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.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool, dry, well-ventilated area.

Keep container closed when not in use.

Control inventory.

Rotate stock periodically.

Use oldest material first.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** None.

- **Specific end use(s)** No further relevant information available.

US

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

Trade name: VINSOL® NVX

(Contd. of page 4)

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:**

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.

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.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

### 1310-73-2 sodium hydroxide

PEL 2 mg/m<sup>3</sup>

REL Short-term value: C 2 mg/m<sup>3</sup>

TLV Short-term value: C 2 mg/m<sup>3</sup>

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

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.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

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.

- **Protection of hands:**

Impervious gloves



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material should be made based on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 6)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

Trade name: VINSOL® NVX

(Contd. of page 5)

- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Appropriate protective clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Powder

**Color:** Brown

- **Odor:** soapy

- **Percent Volatile** Negligible at 20°C

- **Specific Gravity** 0.4

- **pH-value:** 10.6 (10% solution)

- **Change in condition**

**Melting point/Melting range:** Undetermined.

- **Flash point:** 125 °C (257 °F) (Seta flash)

- **Auto igniting:** 343 °C / 650 °F

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/dust mixtures are possible.

- **Density:** Not determined.

- **Bulk density:** Not determined

- **Solubility in / Miscibility with**

**Water:** Soluble in water

- **Solvent content:**

**Organic solvents:** 0.0 %

**Water:** ≤ 4.5 %

**Solids content:** 95.5 %

- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.

- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:**

Stable under recommended handling and storage conditions.

- **Possibility of hazardous reactions**

Not anticipated under normal or recommended handling and storage conditions.

- **Conditions to avoid** No further relevant information available.

(Contd. on page 7)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

Trade name: VINSOL® NVX

(Contd. of page 6)

- **Incompatible materials:** None known.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

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

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

Oral	LD50	5800 mg/kg (mouse)
------	------	--------------------

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:**

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 exposure 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.

- **Additional toxicological information:**

No mutagenicity studies have been carried out with this product.

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

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

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

Trade name: VINSOL® NVX

(Contd. of page 7)

- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
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.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, ADR, ADN, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT, ADN, IMDG, IATA</b></li> <li>· <b>ADR</b></li> </ul>	Void Void
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT, ADR, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	No
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> <li>· <b>DOT</b></li> <li>· <b>Remarks:</b></li> </ul>	<p>This product is not subject to DOT regulations.</p> <p>For specific information regarding transportation of this product, please call the Pinova representative at (888) 807-2958</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	Void

US

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

Trade name: VINSOL® NVX

(Contd. of page 8)

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

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.

None of the ingredients is listed.

- **SECTIONS 302/304**

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

- **SECTION 311 AND 312**

HC-1: Acute health hazard

HC-3: Fire hazard

- **CERCLA**

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

sodium hydroxide

1000 lb final RQ; 454 kg final RQ

- **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.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 10)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

Trade name: VINSOL® NVX

(Contd. of page 9)

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard statements**

H315+H320 Causes skin and eye irritation.

May form combustible dust concentrations in air.

- **Precautionary statements**

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Observe the general safety regulations when handling chemicals.

P202 Do not handle until all safety precautions have been read and understood.

P234 Keep only in original container.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 In case of inadequate ventilation wear respiratory protection.

P301+P312 IF SWALLOWED: Call a doctor if you feel unwell.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P312 IF INHALED: Call a doctor if you feel unwell.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P402+P404 Store in a dry place. Store in a closed container.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

**DISCLAIMER:** The information and recommendations contained in this 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 SDS 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.

- **Relevant phrases**

H314 Causes severe skin burns and eye damage.

- **Department issuing SDS:** Regulatory Affairs Department

- **Contact:** MSDS@pinovasolutions.com

(Contd. on page 11)

-US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2017

Reviewed on 03/10/2017

**Trade name: VINSOL® NVX**

(Contd. of page 10)

**· Date of preparation / last revision 03/15/2017 / 27****· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

US