



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

Printing date 03/15/2017

Reviewed on 03/15/2017

**1 Identification**

- **Product identifier**
- **Trade name:** *Vinsol®*
- **Product Description** resin
- **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.*  
*Adhesives and sealants*  
*Inks and coatings*  
*Binder in paperboard and composition board*  
*Foundry molds and core washes*
- **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 Sens. 1      H317 May cause an allergic skin reaction.*

*Combustible Dust      May form combustible dust concentrations in air.*

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



GHS07

- **Signal word** *Warning*
- **Hazard statements**  
*H317 May cause an allergic skin reaction.*

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May form combustible dust concentrations in air.

· **Precautionary statements**

- P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P234 Keep only in original container.  
 P243 Take precautionary measures against static discharge.  
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves / eye 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+P341 If inhaled: If breathing is difficult, 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.  
 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.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0  
 Fire = 1  
 Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1  
 Fire = 1  
 Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

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

## 3 Composition/information on ingredients

· **Chemical characterization: Substances**

- **CAS No.:** 8050-09-7
- **CAS No. Description**  
8050-09-7 Vinsol®
- **EC number:** 232-475-7

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### 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:**  
Remove to fresh air. Treat any irritation symptomatically. If necessary consult a doctor.
- **After skin contact:**  
Wash off immediately with plenty of soap and water. Hot resin splashes should be left intact. If necessary consult a doctor.
- **After eye contact:**  
Treat the solid resin as an inert particle. Immediately flush eyes with water for 15 minutes. If necessary consult a doctor.
- **After swallowing:**  
Rinse out mouth with water. Drink large quantities of water. Call a doctor. NEVER give anything by mouth to an unconscious person.
- **Information for doctor:**
- **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:**  
Fight the fire using water spray, sand, dry powder, carbon dioxide or foam. Cool packaging by spraying with water.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**  
Carbon monoxide (CO)  
Carbon Dioxide (CO<sub>2</sub>)  
Aldehydes  
Smoke
- **Advice for firefighters**
- **Protective equipment:**  
Self contained breathing apparatus (CEN : EN 137)  
Protective clothing (CEN : EN 469)  
Protective gloves (CEN : EN 659)  
Helmet (CEN : EN 443)
- **Additional information**  
Avoid excess dust in the atmosphere since this is an explosion hazard in the presence of electrical sparks and static discharges. Avoid flammable vapors when removing shrink-wrap film from pallets, since these may ignite due to static electricity. Avoid overheating, especially by direct contact with open flames. Avoid static build-up when emptying packaging. Earth all equipment and attach a grounding cable to the package grounding connection.  
Danger signs: Excessive fumes from overheating the resin.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:**  
This product represents little hazard to humans since this material is regarded as not being acutely toxic. Sweep up the resin for use or place in a container for disposal. Powder and dust should be sprinkled with water.
- **Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**
  - **PAC-1:** Substance is not listed.
  - **PAC-2:** Substance is not listed.
  - **PAC-3:** Substance is not listed.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Handle in a well ventilated area. The conditions of use of this resin should be examined to try to reduce fumes and dusting. The fine particles and powder should be regarded as an inert, nuisance dust with a threshold limit value of 10 mg/m<sup>3</sup> for total dust and of 3 mg/m<sup>3</sup> for the respirable portion. When emptying where flammable vapors are present, earth the operator, blanket the vessel with an inert gas and pour the product into a conductive earthed chute. Earth all equipment.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Product should be stored, under cover, in a clean well ventilated area. Maintain a clean area by removing dust. Keep away from heat, sparks and other sources of ignition. No smoking. The product is prone to slow oxidation and it is recommended that it is used on a first-in first-out basis.  
Store in climate controlled facilities to reduce the product's tendency to agglomerate.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
The packaging material should have reasonable moisture and air barrier properties.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:**  
Handle in a well ventilated area. Normal industrial hygiene measures should be sufficient. The conditions of use of this resin should be examined to try to reduce fumes and dusting.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**  
In case of insufficient ventilation, use a breathing mask with filter type: P2 (CEN : EN 140; EN 143; EN 149)

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- **Protection of hands:**  
Nitrile gloves. (CEN : EN 420)  
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.
- **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:** Airtight chemical goggles.
- **Body protection:** No special requirement.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form: Flakes/Powder

Color: Dark brown

Odor: Piney

#### · Change in condition

Melting point/Melting range: 103 - 123 °C (217 - 253 °F)

Flash point: 280 °C (536 °F)

Flammability (solid, gaseous): Product is not flammable.

Ignition temperature: 470 °C (878 °F)

Danger of explosion: Product does not present an explosion hazard.

Vapor pressure: Essentially non-volatile at ambient temperatures.

#### · Density:

Bulk density at 20 °C (68 °F): 560 - 640 kg/m<sup>3</sup>

#### · Solubility in / Miscibility with

Water at 20 °C (68 °F): Negligibl g/l

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:**  
This product is chemically stable. Spontaneous heating may occur if stored in a nonventilated area at elevated temperatures.
- **Possibility of hazardous reactions**  
This product may react with oxidizing agents. Uncontrolled reaction may lead to a fire/explosion.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** None known.

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- **Hazardous decomposition products:**

This product has limited chemical reactivity. No hazardous chemicals are known to be formed during the use of this product.

## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

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

Oral	LD50	>2500 mg/kg (guinea pig)
		>3000 mg/kg (mouse)
		>4000 mg/kg (rat)
Dermal	LD50	>2500 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:**

Based on our extensive experiences we have concluded that this product may be a low order sensitizer on a small percentage of individuals if the skin exposure is sufficiently intimate and the duration of exposure is sufficiently long.

- **on the eye:** The fine particles and powder should be regarded as an inert, nuisance dust.

- **Sensitization:**

Inhalation: Noxious and irritating fumes may be released on overheating this product. The thermal decomposition of these vapours at about 400 °C may give rise to products which, if not ventilated adequately, could cause asthmatic attacks in a small percentage of exposed workers.

Ingestion: No specific symptoms.

- **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)** Substance is not listed.

- **NTP (National Toxicology Program)** Substance is not listed.

- **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability**

Based on tests on similar resins it is expected that this product cannot be regarded as readily biodegradable in Modified Sturm Test. However, it will be very slowly biodegradable.

- **Behavior in environmental systems:**

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

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

- **Ecotoxicological effects:**

- **Remark:** Ecotoxicity: No data available.

- **Additional ecological information:**

- **General notes:**

WGK Class (Germany): 1 (self-classification)

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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- **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:**  
Dispose by controlled incineration or by dumping in an approved landfill area according to 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, ADR, ADN, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> <li>· <b>Class</b></li> </ul>	Void This product is not subject to DOT regulations.  For specific information regarding transportation of this product, please call the Pinova representative at (888) 807-2958.
<ul style="list-style-type: none"> <li>· <b>Label</b></li> </ul>	Rosin
<ul style="list-style-type: none"> <li>· <b>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>	HOT MOLTEN or HOT LIQUID product: This product is subject to the hazardous materials regulations. For specific information regarding transportation of this product, please contact the Pinova representative at 912-265-3550 x3200.  SOLID at ambient temperature: This product is NOT

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- |                                 |                             |
|---------------------------------|-----------------------------|
| ·                               | subject to DOT regulations. |
| · <b>UN "Model Regulation":</b> | Void                        |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):** Substance is not 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.

Substance is not 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**  
This product does not contain any chemicals subject to reporting as a CERCLA Hazardous Substance under 40CFR302.4.
- **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):** Substance is not listed.
- **Proposition 65**
- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)** Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **Canadian substance listings:**
- **Canadian Domestic Substances List (DSL)** Substance is not listed.
- **Canadian Non-Domestic Substances List (NDSL)** Substance is not listed.
- **GHS label elements**  
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**  
H317 May cause an allergic skin reaction.  
May form combustible dust concentrations in air.
- **Precautionary statements**  
P202 Do not handle until all safety precautions have been read and understood.

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P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P234	Keep only in original container.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves / eye 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.
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P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
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P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: 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.

· **Department issuing SDS:** Regulatory Affairs Department

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

· **Date of preparation / last revision** 03/15/2017 / -

· **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)

ICAO: International Civil Aviation Organisation

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

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

NFPA: National Fire Protection Association (USA)

HMIS: 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

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PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Skin Sens. 1: Skin sensitisation – Category 1

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