

Safety Data Sheet acc. to OSHA HCS

Printing date 12/04/2017

Reviewed on 12/04/2017

1 Identification

- **Product identifier**
- **Trade name:** **PICCOLYTE® S25**
- **Product Description** polyterpene resin
- **Article number:** 108808
- **Application of the substance / the mixture**
Tackifier resin in pressure-sensitive and hot-melt adhesives, particularly those compounded with natural rubber
Plasticizing resin in rubber compounding
In combination with waxes and polybutenes, various coatings and paper-to-paper laminating
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Pinova Incorporated
2801 Cook Street
Brunswick, Georgia 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**
The product is not classified according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **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.
 - P261 Avoid breathing 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.
 - P273 Avoid release to the environment.
 - 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+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.*

• **Information pertaining to particular dangers for man and environment:**

CAUTION!

Surfaces subject to spills may become slippery.

POTENTIAL HEALTH EFFECTS

May cause skin irritation.

Inhalation may cause respiratory tract irritation.

Ingestion may cause gastrointestinal irritation.

If swallowed, vomiting will cause lung damage.

GENERAL HYGENIC PRACTICES - *Avoid contact with eyes, skin, and clothing. Avoid breathing vapor, fumes or mist. Handle in areas with adequate ventilation.*

Refer to SDS Section 8, Exposure Controls/Personal Protection, for further information. Refer to Section 5 for Hazardous Combustion Products and Section 10 for Hazardous Decomposition/Hazardous Polymerization Products.

• **Classification system:**

• **NFPA ratings (scale 0 - 4)**



Health = 1
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.:** Mixture

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· **CAS No. Description**

Mixture

· **Index number:** 006-143-86-9

· **Additional information:**

This product contains a petroleum oil which is hazardous if used in a manner that could generate a mist. Refer to SDS Section 8, Recommended Exposure Limits and Personal Protective Equipment. If this product is used in a manner that could generate an oil mist, refer to SDS Section 8, Recommended Exposure Limits and Personal Protective Equipment.

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:** Void

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 with soap and water. Get medical attention if irritation develops or persists.

· **After eye contact:**

Good industrial hygiene practice dictates thoroughly flushing eyes with water should accidental contact occur. Get medical attention if irritation persists.

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

· **Information for doctor:** Aspiration into the lungs will result in chemical pneumonitis and may be fatal.

· **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.

Use fire fighting measures that suit the environment.

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

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

Carbon monoxide (CO)

Carbon Dioxide (CO₂)

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.

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Cool containers with water to prevent rupture.

6 Accidental release measures

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

Ventilate area. Avoid dust formation. Clean up spills immediately.

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.

This product contains a petroleum hydrocarbon. Prevent runoff from spills or leaks entering navigable waters, streams or other bodies of water. If runoff occurs, notify the National Response Center (NRC) at 800-424-8802.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- **Handling:**

- **Precautions for safe handling** Keep containers closed when not in use.

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

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

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

- **Storage:**

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

Store in cool, dry area.

Keep container closed when not in use.

Control inventory.

Rotate stock periodically.

- **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.

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.

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Keep floors clean and dry. Clean up spills immediately.

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

- **Control parameters**

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional Occupational Exposure Limit Values for possible hazards during processing:**

OIL MIST (MINERAL): This product contains a mineral (petroleum hydrocarbon) oil. If this product is used in a manner that could generate an oil mist, the OSHA TWA and ACGIH TLV TWA of 5 mg/m³, and TLV STEL of 10 mg/m³, should be observed.

ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) 2 mg/m³ TWA (inhalable fraction and vapor)

U.S. - OSHA - Vacated PELs - TWAs 10 mg/m³ TWA

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Avoid contact with eyes, skin, and clothing.

Avoid breathing vapor or mist.

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.

- **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

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.

- **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:** For good industrial hygiene practice: Safety glasses

- **Body protection:** Appropriate protective clothing

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9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: viscous liquid to semi-solid

Color: light amber

· **Odor:** typical terpene

· **Specific Gravity** 0.92 - 0.98

· **Change in condition**

Softening Point 22 - 28 °C (72 - 82 °F) (Ring & Ball)

· **Flash point:** 221 °C (430 °F)

· **Flammability (solid, gaseous):** Not applicable.

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

· **Density:**

Bulk density: Not determined

Evaporation rate slower than butyl acetate

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

· **Solvent content:**

Organic solvents: 0.0 %

Solids content: 60.0 %

· **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 to avoid** No further relevant information available.

· **Incompatible materials:** None known.

· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

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

PRODUCT/SIMILAR PRODUCT - No animal toxicity studies have been carried out with this product.

COMPONENT - terpene hydrocarbon resin: Rats and dogs fed up to 10% in the diet for 2 years exhibited no product-related effects.

· **Primary irritant effect:**

· **on the skin:**

Due to the physical nature of this material, may cause skin irritation.

Based on available data, the classification criteria are not met.

· **on the eye:**

Due to the physical nature of this material, may cause eye irritation.

Based on available data, the classification criteria are not met.

· **Sensitization:**

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

COMPONENT - mineral oil: Diarrhea following ingestion. Prolonged or repeated contact may cause skin irritation or dryness. Aspiration into the lungs will cause chemical pneumonia.

· **Additional toxicological information:**

No mutagenicity studies have been carried out with this product.

The product is not subject to classification according to internally approved calculation methods for preparations:

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.

· **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:** No further relevant information available.

· **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.

· **Ecotoxicological effects:**

· **Remark:** No ecological studies have been carried out on this product.

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- **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 is a suitable alternative after solidification to remove free liquids.
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

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Remarks:	This product is not subject to DOT regulations.
	For specific information regarding transportation of this

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- product, please call the Pinova representative at (888) 807-2958
- **UN "Model Regulation":** Void

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
NPH: Not a physical 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):**

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.

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• **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** Void

• **Hazard pictograms** Void

• **Signal word** Void

• **Hazard statements** Void

• **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.
- P261 Avoid breathing 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.
- P273 Avoid release to the environment.
- 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.

• **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

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state laws.

- **Department issuing SDS:** Regulatory Affairs Department
- **Contact:** MSDS@pinovasolutions.com
- **Date of preparation / last revision** 12/04/2017 / 12
- **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

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

- *** Data compared to the previous version altered.**

US