



Safety Data Sheet
acc. to OSHA HCS

Printing date 03/14/2017

Reviewed on 11/17/2016

1 Identification

- **Product identifier**
- **Trade name: ABALYN®**
- **Product Description** methyl ester of wood rosin
- **Article number:** 105390, 108755
- **Application of the substance / the mixture**
Plasticizer for pressure sensitive and hot melt adhesives
Gloss component in lacquers
Softener for rubber compounds
Component of inks, varnishes, and asphalt
- **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**
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements**
- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**
H412 Harmful to aquatic life with long lasting effects.
- **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 mist/vapours/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.

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- 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.*
 P337+P313 *If eye irritation persists: Get medical advice/attention.*
 P362 *Take off contaminated clothing.*
 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 eye irritation.

May cause skin irritation.

POTENTIAL HEALTH EFFECTS

Prolonged exposure to smoke or fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing, or breathing difficulty. Repeated exposure may lead to respiratory sensitization (asthma) in susceptible individuals.

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.:** 68186-14-1

· **CAS No. Description**

Resin acids and Rosin acids, Me esters

· **EC number:** 269-035-9

· **Index number:** 002-690-35-9

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· **Additional information:**

If this product is heated or used at temperatures sufficient to produce smoke or fumes, refer to SDS Section 8, Exposure Controls/Personal Protection

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. See Note to Physician.

· **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 medical attention if irritation persists.

· **After swallowing:**

No adverse health effects are expected from accidental ingestion of small amounts of this product. For ingestion of large amounts: Do NOT induce vomiting. Get immediate medical attention.

· **Information for doctor:**

This product contains rosin or a rosin derivative. Rosin decomposition products, present in smoke or fumes, have been reported to cause respiratory sensitization (asthma) in susceptible individuals after repeated exposure.

· **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**

Combustion products include:

Carbon monoxide (CO)

Carbon Dioxide (CO₂)

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.

Cool containers with water to prevent rupture.

6 Accidental release measures

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

Ventilate area.

Add absorbent, sweep up, and dispose appropriately.

Wash area with soap and water.

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- **Environmental precautions:**
 Avoid disposing directly into sewer, soil or aquatic environment.
 In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygienic Practices.
 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**
 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 a cool, dry place.
- **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.
 Provide adequate ventilation.
 Keep away from ignition sources.
 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:** Not required.
- **Additional Occupational Exposure Limit Values for possible hazards during processing:**
 ROSIN PYROLYSIS FUMES: If this product is heated to temperatures sufficient to produce smoke or fumes, maintain exposure to resin acids to the lowest achievable concentration using recommended engineering controls and personal protective equipment.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Avoid contact with eyes, skin, and clothing.
 Avoid breathing vapor or mist.
 Handle in areas with adequate ventilation.
 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.

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- **Protection of hands:**
Impervious gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **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:** Safety glasses
- **Body protection:** Appropriate protective clothing

9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form: Viscous Liquid

Color: Amber

- **Odor:** typical rosin

- **Percent Volatile** negligible @ 20°C

- **Specific Gravity** 1.03 g/ml @ 20°C

- **Vapor Density** heavier than air

- **Change in condition**

Boiling point/Boiling range: 352 - 356 °C (666 - 673 °F)

- **Flash point:** 181 °C (358 °F) (Cleveland Open Cup)

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

- **Density:** Not determined.

- **Bulk density:** Not determined

- **Evaporation rate** slower than butyl acetate

- **Solubility in / Miscibility with**

Water at 20 °C (68 °F): negligible g/l

- **Other information** Viscosity: 4,700 mPa.s (25°C)

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.
- **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:**

Acute oral LD50 (rat): > 10 g/kg; acute oral LD50 (guinea pig): > 10 g/kg; acute oral LD50 (rabbit): > 10 g/kg. Acute dermal LD50 (rabbit): 5 g/kg; moderately irritating to rabbit skin.

- **Primary irritant effect:**

- **on the skin:** Mild skin irritant.

- **on the eye:** Mild irritant.

- **Sensitization:** May cause eye and skin irritation.

- **Additional toxicological information:**

- **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** No further relevant information available.

- **Other information:**

Based upon data from this or similar materials, this product cannot be regarded as readily biodegradable; however, it may be slowly biodegradable.

- **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.

- **Additional ecological information:**

- **General notes:**

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.

- **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. Disposal should be in accordance with applicable Federal, State and local regulations.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT, ADR, ADN, IMDG, IATA 	Void
<ul style="list-style-type: none"> · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA 	Void
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class 	Void
<ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA 	Void
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR · Remarks: 	<p style="margin: 0;">For information regarding transportation classification of this product, please contact Pinova, Inc. at (888) 807-2958.</p>
<ul style="list-style-type: none"> · 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):** 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
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):** Substance is 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.

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- **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 listed.
- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**
H412 Harmful to aquatic life with long lasting effects.
- **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.
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P301+P312	IF SWALLOWED: Call a doctor if you feel unwell.
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P362	Take off contaminated clothing.
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** 03/14/2017 / 27

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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

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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