

Safety Data Sheet
 acc. to OSHA HCS

Printing date 07/11/2017

Reviewed on 07/10/2017

1 Identification

- **Product identifier**
- **Trade name:** DERTOPHENE T 105
- **Article number:** 167373
- **Substance name:** Description: terpene phenolic resin
- **CAS Number:**
25359-84-6
- **Application of the substance / the mixture**
Relevant identified uses: production and distribution of the substance, adhesives, putties
- **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@pinovasolution.com
- **Emergency telephone number:**
CHEMTREC (24/24 - 7/7)
International: +1 703 527 3887
From US: 1 800 424 9300

2 Hazard(s) identification

- **Classification of the substance or mixture**
Combustible Dust May form combustible dust concentrations in air.
- **Label elements**
- **US label elements** The substance is classified and labeled according to the US system.
- **Hazard pictograms** Void
- **Signal word** Warning
- **Hazard statements**
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.
P273	Avoid release to the environment.
P234	Keep only in original container.
P284	In case of inadequate ventilation wear respiratory protection.
P261	Avoid breathing dust.
P280	Wear protective gloves / eye protection.
P262	Do not get in eyes, on skin, or on clothing.
P243	Take precautionary measures against static discharge.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P362	Take off contaminated clothing.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P314	Get medical advice if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P402+P404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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

Prolonged or repeated exposure to vapours/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or breathing difficulty.

HOT MOLTEN product: Burns may cause irreversible eye injury and blindness. Causes skin burns.

Product may burn if ignited.

· **Classification system:**

· **NFPA ratings (scale 0-4)**



Health = 1

Fire = 1

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not PBT.

· **vPvB:** Not determined.

3 Composition/information on ingredients

· **Chemical characterization:** Substance polymer

· **CAS Number:**

25359-84-6

Phenol, polymer with 2,6,6-trimethylbicyclo[3.1.1]hept-2-ene

· **Additional information:**

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

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

· **Description:** Terpene phenolic resin.

4 First-aid measures

· **After inhalation:**

Supply fresh air. If symptoms are experienced, get medical attention.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately rinse with plenty of water.

Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Get medical attention if irritation occurs.

In case of hot product splashes on the skin, cool immediately with plenty of water during 15 minutes and seek medical advice.

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· **After eye contact:**

Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do. Hold eyelids apart and flush eyes with plenty of cool low-pressure water for 15 minutes. Consult an ophthalmologist.

If eye contact with hot product: Do not open eyelids if covered with resins. Immediately flush eyes with large amounts of water for at least 15 minutes. Do not remove solidified material from burned eye as the damaged tissues can be easily torn. Transfer immediately to hospital.

· **After swallowing:**

Do not induce vomiting. If the person is conscious, immediately rinse out mouth with water.

- No adverse health effects are expected from accidental ingestion of small amounts of this product. In case of lasting symptoms, consult a doctor.

- For ingestion of large amounts: do not induce vomiting and get medical attention.

· **Most important symptoms and effects, both acute and delayed** No data available.

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

For HOT MOLTEN or HOT LIQUID product: Material should not be forcibly removed from the skin.

Mineral oil may be used to loosen and soften the material.

5 Fire-fighting measures

· **Suitable extinguishing agents:**

Carbon dioxide (CO₂), foam, fire-extinguishing powder, water spray.

Fight large fires with water spray or foam.

· **Special hazards arising from the substance or mixture** In case of fire, may release irritant and toxic fumes.

· **Advice for firefighters**

· **Protective equipment:**

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus.

· **Additional information:** Cool endangered receptacles with water spray.

6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Provide adequate ventilation

Avoid formation of dust.

· **Environmental precautions:**

Do not allow product to reach soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (soil, waterways, drains or sewers).

· **Methods and material for containment and cleaning up**

Pick up mechanically.

Avoid as much as you can the formation of dust.

Collect and seal in an appropriate container properly labelled for disposal.

· **Reference to other sections**

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.

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7 Handling and storage

- **Precautions for safe handling**

Wear appropriate personal protective equipment. Provide adequate ventilation in the workplace.

Prevent formation of dust.

Provide suction extractors if dust is formed.

For HOT MOLTEN or HOT LIQUID product: Use personal protective equipment as indicated in Section 8.

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

Protect against electrostatic charges.

Use only non-sparking tools.

Protect from heat.

Keep ignition sources away.

- **Conditions for safe storage**

Store if possible under cover in a cool well-ventilated location.

Provide storage areas with suitable ventilation to eliminate dusts.

All equipment including ventilation systems must be equipotential and earthed.

Store only in the original receptacle.

Avoid dust formation close to sources of ignition.

Protect from heat and direct sunlight.

Provide storage areas with suitable ventilation to eliminate dusts.

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.

- **Further information about storage conditions**

- **Recommended storage temperature:**

Store at a temperature between 5 and 35 °C.

This product can be spoiled irreversibly if subjected to freezing temperatures or to prolonged heat.

8 Exposure controls/personal protection

- **Control parameters**

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

Occupational Exposure Values for dust, particulates

ACGIH TLV TWA

- total dust 10 mg/m³

- respirable dust 3 mg/m³

OSHA PEL TWA

- total dust 15 mg/m³

- respirable dust 5 mg/m³

- **Additional information:** This sheet is based on the current valid lists.

- **Exposure controls**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Provide local exhaust or general room ventilation to minimize exposure to dust.

Immediately remove all soiled and contaminated clothing.

Avoid contact with eyes and skin.

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- **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:**

Protective gloves resistant to chemicals (standard EN 374-1). They should be replaced regularly and if there is any indication of degradation or chemical breakthrough.

- **Eye protection:** Safety Goggles

- **Body protection:**

Protective work clothing

Personnel exposed to HOT MOLTEN or HOT LIQUID material should wear protective clothing that provides protection against thermal burns. Required Protective Equipment: a) Long-sleeved protective shirt, long pants and work shoes; b) Hard hat and face shield; c) Long-cuff gloves (Gauntlet type extending beyond wrist); d) Lined rain suit with protective hood or shoulder shroud or e) Full aluminized or thermal suit with hood.

9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form: Solid

Color: Yellow

- **Odor:** Odorless

- **Odor threshold:** Not applicable

- **pH-value:** Not applicable.

- **Change in condition**

Boiling point/Boiling range: Not determined.

Softening point R&B: 102-108 °C (216-226 °F)

- **Flash point:** 190 °C (374 °F) (closed up)

- **Flammability (solid, gaseous):** Not determined.

- **Auto-ignition temperature:** Not determined

- **Decomposition temperature:** Not determined

- **Danger of explosion:** The substance does not contain any chemical groups associated with explosive properties. In the form supplied, the product is not explosive. However fine dust clouds may form explosive mixtures with air.

- **Oxidizing properties** The substance does not contain any chemical groups associated with oxidising properties.

- **Vapor pressure:** Not determined.

- **Specific gravity:**

Relative density at 20 °C (68 °F) 1.03

Vapor density Not determined.

Evaporation rate Not determined.

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· Solubility in / Miscibility with Water:	Not soluble or slightly soluble.
· Partition coefficient (n-octanol/water):	Not determined
· Viscosity: Dynamic:	Not applicable.
· Additional information	No other data

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Reactivity** No data from specific reactivity tests are available for this product or this class of product.
- **Chemical stability** Product stable under storage and handling conditions according to specifications (see section 7).
- **Possibility of hazardous reactions**
In the form supplied, the product is not explosive; however, dust production may induce risk of explosion.
- **Conditions to avoid** Keep away from heat and sources of ignition.
- **Incompatible materials:** No data available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD₅₀/LC₅₀ values that are relevant for classification:**
By analogy with a structurally related product, the LD50(oral, rat) is expected to be greater than 2000 mg/kg.
- **Primary irritant effect:**
- **on the skin:**
May cause irritation by prolonged skin contact. However, based on available data, the classification criteria are not met.
- **on the eye:** Fine particles and powder may cause eye irritation by mechanical effect.
- **Sensitization:** No data available.
- **Mutagenicity/genotoxicity:** No data available.
- **Carcinogenicity:** No data available.
- **Reproductive toxicity:** No data available.
- **Specific target organ toxicity - single exposure:** No data available.
- **Specific target organ toxicity - repeated exposure:** No data available.
- **Aspiration hazard:** Not applicable (solid).
- **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.

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12 Ecological information

- **Aquatic toxicity:**

Tests carried out with a structurally related substance:

Reliable short-term aquatic toxicity values have been determined in tests conducted with water-accommodated fractions (WAFs). This method was developed for slightly soluble substances; the initial loading rate of the substance is significantly higher than the solubility in water. LL₅₀ and EL₅₀, similar to LC₅₀ and EC₅₀, are obtained.

EL₅₀ (48 h), Daphnia magna: > 100 mg/L (nominal concentration - OECD 202)

NOELr (48 h), Daphnia magna: > 100 mg/L (nominal concentration - OECD 202)

- **Persistence and degradability**

The substance is not readily biodegradable (OECD 301 B conducted with a structurally related substance).

- **Bioaccumulative potential** No data available.

- **Mobility in soil** No data available.

- **Results of PBT and vPvB assessment**

- **PBT:** Not PBT.

- **vPvB:** Not determined.

- **Other adverse effects** No data available.

13 Disposal considerations

- **Waste treatment methods** National and regional regulations have to be adhered to.

- **Recommendation:**

Dispose of waste material in accordance with all federal, state and local regulations.

The product has to be disposed of in an authorised incinerator, according to regulation.

- **Uncleaned packagings:**

- **Recommendation:** Packaging has to be sent to an authorised waste treatment facility, for recycling or disposal.

14 Transport information

- **UN-Number** Not classified as a dangerous good under transport regulation.

- **DOT** Void

- **UN proper shipping name** Not classified as a dangerous good under transport regulation.

- **DOT** Void

- **Transport hazard class(es)**

- **DOT**

- **Class** Void

- **ADR, IMDG, IATA**

- **Class** Not classified as a dangerous good under transport regulation.

- **Packing group** Not applicable.

- **DOT** Void

- **Environmental hazards:** Not classified as a dangerous good under transport regulation.

- **Special precautions for user** Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

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· **UN "Model Regulation":** Void

15 Regulatory information

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

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

NHH: Not a 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.

- **SARA Section 355 (extremely hazardous substances)** Substance is not listed.
- **SARA Section 313 (specific toxic chemical listings)** Substance is not listed.
- **TSCA (Toxic Substances Control Act)** Substance is listed.
- **Prop 65 - Chemicals known to cause cancer or reproductive toxicity** Substance is not listed.
- **Carcinogenicity categories**
- **EPA (Environmental Protection Agency) - 12th Report on Carcinogens** Substance is not listed.

- **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.
- **MAK (German Maximum Workplace Concentration)** Substance is not listed.
- **US label elements** The substance is classified and labeled according to the US system.
- **Hazard pictograms** Void
- **Signal word** Warning

· **Hazard statements**

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.
- P273 Avoid release to the environment.
- P234 Keep only in original container.
- P284 In case of inadequate ventilation wear respiratory protection.
- P261 Avoid breathing dust.
- P280 Wear protective gloves / eye protection.
- P262 Do not get in eyes, on skin, or on clothing.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
- P362 Take off contaminated clothing.
- 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 if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P402+P404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:** Canadian Domestic substances List (DSL): Substance is listed

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Version 1.0**

· **Emergency telephone numbers (other countries)**

CHEMTREC In-Country Numbers (24/24 - 7/7)

Argentina (Buenos Aires): +54 (0)11 5983 9431

Australia (Sydney): +61 (0)2 9037 2994

Bahrain (Bahrain): +973 1619 9372

Brazil (Rio de Janeiro): +55 21 3958 1449

Canada*: 1 800 424 9300

Chile (Santiago): +56 (0)22 581 4934

China*: 4001 204 937

Czech Republic (Prague): +420 228 880 039

Colombia*: 01 800 710 2151

Germany*: 0 800 181 7059

Hong Kong* (Hong Kong): 800 968 793

Hungary (Budapest): +36 (06)1 808 8425

India*: 000 800 100 7141

Indonesia*: 001 803 017 9114

Israel (Tel Aviv): +972 (0)3 763 0639

Italy*: 800 789 767

Italy (Milan): +39 02 4555 7031

Japan (Tokyo): +81 (0)3 4520 9637

Malaysia*: 1 800 815 308

Mexico*: 01 800 681 9531

Netherlands: +31 (0)858 880 596

Peru (Lima): +51 1 707 1295

Philippines*: 1 800 1 116 1020

Poland (Warsaw): +48 22 398 80 29

Singapore*: 800 101 2201

Singapore: +65 3158 1349

South Africa*: 0 800 983 611

South Korea*: 00 308 13 2549

Spain*: 900 86 85 38

Sweden (Stockholm): +46 (0)8 5250 3403

Switzerland: +41 (0)43 508 20 11

Taiwan*: 00801 14 8954

Thailand*: 001 800 13 203 9987

USA*: 1 800 424 9300

(* Phone numbers for countries marked with an asterisk must be dialed within the country.)

· **Department issuing technical data sheet:** Regulatory Affairs Department

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

· **Date of preparation / last revision** 07/11/2017 / -

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· Abbreviations and acronyms:

CLP: Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging
EC₅₀: Loading rate which causes effects to 50 % of the tested organisms (daphnids)
EL₅₀: Loading rate which causes effects to 50 % of the tested organisms (daphnids)
LC₅₀: Lethal concentration for 50 % of exposed animals
LD₅₀: Lethal dose for 50 % of animals exposed by oral or dermal route
LL₅₀: Median lethal loading rate (lethal level for 50 % of fish exposed)
NOELr: Initial loading rate of the substance without observed effect
OECD: Guidelines from the Organisation for Economic Co-operation and Development
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: very Persistent and very Bioaccumulative substance.

· Sources Literature and company data**· Data compared to the previous version:** not applicable

US