

Safety Data Sheet acc. to OSHA HCS

Printing date 08/10/2017

Reviewed on 08/10/2017

1 Identification

- **Product identifier**
- **Trade name:** DERMULSENE TR 602
- **Article number:** 167364
- **Application of the substance / the mixture** Relevant identified uses: Adhesives
- **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**



Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **US label elements** The product is classified and labeled according to the US system.
- **Hazard pictograms**



- **Signal word** Warning
- **Hazard statements**
Causes serious eye irritation.
- **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/fume/gas/mist/vapors/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.

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- 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.
- P314 Get medical advice/attention 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.

- **Classification system:**
- **NFPA ratings (scale 0-4)**



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



HEALTH =
FIRE =
REACTIVITY =
PERSONAL PROTECTION = see Section 8 of this MSDs

- **Other hazards**
Prolonged or repeated exposure to vapours/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or breathing difficulty.
- **Results of PBT and vPvB assessment**
- **PBT:** Not determined.
- **vPvB:** Not determined.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Waterborne dispersion of resin terpene phenol

· Dangerous components:		
Surfactant 1	☠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	1-3%

- **Additional information:**
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- For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **After inhalation:**
Supply fresh air. If symptoms are experienced, get medical attention.

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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.

· After eye contact:

Immediately rinse with water. Remove contact lenses if present and easy to do. Hold eyelids apart and flush eyes with plenty of cool low-pressure water for several minutes. If symptoms persist, consult a doctor.

· 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 No specific indications.

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 No further relevant information available.

· 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

Provide adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· 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

Small spills:

Absorb spilled liquid with inert absorbent. Collect in an appropriate container properly labelled. Close it for disposal.

Large spills:

Stop spill if it can be done without danger. Dike. Pump as much liquid as possible with an explosion-proof pump or a hand pump. Absorb the remaining liquid with inert absorbent. Collect in an appropriate container properly labelled.

Close it 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:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

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· PAC-3:

None of the ingredients is listed.

7 Handling and storage

· Precautions for safe handling

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

· Information about protection against explosions and fires Protect from heat.

· Conditions for safe storage

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

Store only in the original receptacle.

Keep container tightly sealed.

Keep away from sources of ignition.

Protect from heat and direct sunlight.

Protect from frost.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions None.

· 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: None

· CAS No. Designation of material % Type Value Unit

· Additional Occupational Exposure Limit Values for possible hazards during processing:

ROSIN PYROLYSIS FUMES: if this product is heated to temperature sufficient to produce smoke or fumes, maintain exposure to resin acids to the lowest achievable concentration using recommended engineering controls and personal protective equipment.

· 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.

Immediately remove all soiled and contaminated clothing.

Avoid contact with 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.

Use suitable respiratory protective device in case of insufficient ventilation.

· 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

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· **Body protection:** Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid

Color: White

· Odor: Odorless

· Odor threshold: Not applicable

· pH-value at 20 °C (68 °F): 8

· Change in condition

Melting point/Melting range: Not determined

Boiling point/Boiling range: 100 °C (212 °F)

· Flash point: >150 °C (>302 °F) (closed up)

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

· Auto-ignition temperature: Not determined

· Decomposition temperature: Not determined

· Auto igniting: Product is not selfigniting.

· Danger of explosion: The components of the mixture do not contain any chemical groups associated with explosive properties.

· Explosion/Flammability limits:

Lower: Not determined

Upper: Not determined

· Oxidizing properties: The components of the mixture do not contain any chemical groups associated with oxidizing properties.

· Vapor pressure: Not determined.

· Specific gravity: Not determined.

· Relative density at 20 °C (68 °F): 1.02

· Vapor density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

Water: This product is a waterborne dispersion.

· Partition coefficient (n-octanol/water): Not determined

· Viscosity:

Dynamic at 20 °C (68 °F): 900 mPas

Kinematic: Not determined.

· Solvent content:

Organic solvents: 0.0 %

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Additional information	No other data
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10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Product stable under storage and handling conditions according to specifications (see section 7).
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** This product can be damaged irreparably if frozen or subjected to prolonged heat.
- **Incompatible materials:** Acids and cationic chemicals
- **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:**
LD₅₀ for the components of the mixture are > 2000 mg/kg (oral, rat).
- **Primary irritant effect:**
May cause irritation by prolonged skin contact. However, based on available data, the classification criteria are not met.
- **on the skin:**
May cause irritation by prolonged skin contact. However, based on available data, the classification criteria are not met.
- **on the eye:** May be irritating to the eyes. However, based on available data, the classification criteria are not met.
- **Sensitization:**
No data available on the product itself. Contains CIT (5-chloro-2-methyl-2H-isothiazole-3-one - CAS No 26172-55-4) and MIT (2-methyl-2H-isothiazole-3-one - CAS No 2682-20-4). May produce an allergic reaction.
- **Aspiration hazard:** No aspiration hazard expected.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
- **Carcinogenic categories**

IARC (International Agency for Research on Cancer)

No components listed.

NTP (National Toxicology Program)
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No components listed.

OSHA-Ca (Occupational Safety & Health Administration)
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None of the ingredients is listed.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
- **General notes:**
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **Results of PBT and vPvB assessment**
- **PBT:** Not determined.
- **vPvB:** Not determined.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods** National and regional regulations have to be adhered to.
- **Recommendation:**
The product has to be disposed of in an authorised incinerator, according to regulation.
Dispose of waste material in accordance with all federal, state and local regulations.
- **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.
· UN proper shipping name	Not classified as a dangerous good under transport regulation.
· Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	Not classified as a dangerous good under transport regulation.
· Packing group	Not applicable.
· 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.
· UN "Model Regulation":	-

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

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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)
No components listed.

· SARA Section 313 (specific toxic chemical listings)
No components listed.

· TSCA (Toxic Substances Control Act)
All ingredients are listed.

· Prop 65 - Chemicals known to cause cancer or reproductive toxicity
No components listed.

· Cancerogenicity categories

· EPA (Environmental Protection Agency) - 12th Report on Carcinogens
No components listed.

· TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)
No ingredient(s) (see section 3) listed.

· **US label elements** The product is classified and labeled according to the US system.

· Hazard pictograms

GHS07

· **Signal word** Warning

· Hazard statements

Causes serious eye irritation.

· 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/fume/gas/mist/vapors/spray

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

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.

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/attention 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): All components are 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.

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- **Department issuing technical data sheet:** Regulatory Affairs Department
- **Contact:** MSDS@pinovasolutions.com
- **Date of preparation / last revision** 08/10/2017 / -

Abbreviations and acronyms:

LC₅₀: Lethal concentration for 50 % of exposed animals
NTP: National Toxicology Program
CLP: Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration (Department of Labour)
TLV: Threshold Limit Value
IARC: International Agency for Research on Cancer
LD₅₀: Lethal dose for 50 % of animals exposed by oral or dermal route
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: very Persistent and very Bioaccumulative substance.
Skin Irrit. 2: Skin corrosion/irritation, Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

- **Sources** Literature and company data
- **Data compared to the previous version:**

End of the safety data sheet