

Safety Data Sheet acc. to OSHA HCS

Printing date 11/12/2024

Reviewed on 11/12/2024

1 Identification

- **Product identifier**
- **Trade name:** **DERTOPHENE® T 105**
- **Article number:** 938056
- **Substance name:** Terpene phenolic resin
- **Application of the substance / the mixture** Production and distribution of the substance, adhesives, sealants, tyres.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
LES DERIVES RESINIQUES ET TERPENIQUES (DRT)
30 rue Gambetta
BP 90206
F-40105 DAX CEDEX
FRANCE
Tel : 33-(0)5 58 56 62 00
Email : drt.fds@dsm-firmenich.com
- **Emergency telephone number:**
NCEC (24/24 – 7/7):
United States : +1 866 928 0789 (Toll free)
United States : +1 215 207 0061 (involves operator intervention to identify language)
Others countries : See section 16

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.
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/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.

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- P301+P312 If swallowed: Call a poison center/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 water.
- P304+P312 IF INHALED: Call a POISON CENTER/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:**

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)**



· **HMIS ratings (scale 0-4)**



· **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:** Confidential

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· **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:**

Product at ambient temperature:

Immediately rinse with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritations occurs.

Hot product:

Immediately immerse or flush the burn area with large amounts of cold water (at least 15 minutes). Do not remove solidified material from burned skin as the damaged skin can be easily torn. Transfer immediately to hospital.

· **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 10-15 minutes. If irritation occurs, 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. 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 doctors: 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 acrid fumes.

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- **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.

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 dry, cool and well-ventilated area.

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Provide storage areas with suitable ventilation to eliminate dust.
All equipment including ventilation systems must be equipotential and earthed.
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/m³OSHA 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.
- **Protection of hands:**
Protective, impervious 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 glasses (standard EN 166)
- **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 impervious gloves (Gauntlet type extending beyond wrist); d)

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Lined rain suit with protective hood or shoulder shroud or e) Full aluminized or thermal suit with hood.

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9 Physical and chemical properties

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

· **General Information**

· Form:	Solid
· Color:	Yellow
· Odor:	Odorless
· Odor threshold:	Not applicable

· **Change in condition**

· Boiling point/Boiling range:	Not determined.
· Softening point R&B:	102 - 108 °C (215.6 - 226.4 °F)

· Flash point:	> 200 °C (> 392 °F) (Closed Cup)
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· Auto-ignition temperature:	Not determined
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· Decomposition temperature:	Not determined
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· 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.
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· Oxidizing properties	The substance does not contain any chemical groups associated with oxidising properties.
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· Vapor pressure:	Not determined.
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· Specific gravity:	
· Relative density at 20 °C (68 °F)	1.03

· Solubility in / Miscibility with	
· Water:	Not soluble or slightly soluble.

· Partition coefficient (n-octanol/water) at 20 °C (68 °F):	10.9 - 14.0 (on similar subst) (HPLC method)
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· Viscosity:	
· Dynamic:	Not applicable.

· Additional information	No other data
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10 Stability and reactivity

- **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 abrasion. However, based on available data, the classification criteria are not met.
- **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:**
A 90-day subchronic toxicity study with a 28-day recovery period (guideline OECD 408) was performed on a similar terpen phenol resin (year 2020). In conclusion, administration of a terpen phenol resin copolymer resin by once daily oral gavage for 90-days was well tolerated in rats at levels up to 1000 mg/kg/day. Based on these results, the no-observed-adverse-effect level (NOAEL) was considered to be at least 1000 mg/kg/day.
- **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.

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· **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 well higher than the solubility in water. LL₅₀ and EL₅₀, similar to LC₅₀ and EC₅₀, are obtained.

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

NOELr (48h), 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:**

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.

· **DOT** Void

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

· **DOT** Void

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· 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.
· UN "Model Regulation":	Void

15 Regulatory information

- **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)** 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.
 - 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.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P301+P312 If swallowed: Call a poison center/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 water.
P304+P312 IF INHALED: Call a POISON CENTER/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.

- **National regulations:** Canadian Domestic substances List (DSL): Substance is listed
- **Chemical safety assessment:**
No Chemical Safety Assessment required (the product is exempted from REACH registration).

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.

NCEC In-Country Numbers (24/24 - 7/7):

Global / English speaking countries : +44 1865 407333

Middle East/Africa : +44 1235 239671* (English, Arabic, French, Portuguese, Farsi)

Americas : +1 215 207 0061* (English, Spanish, French, Portuguese)

East/South East Asia : +65 3158 1074* (English, Bengali, Cantonese, Indonesian, Hindi, Japanese, Korean, Malay, Mandarin, Sinhalese, Urdu, Tagalog, Thai, Vietnamese)

Europe : +44 1235 239670*

*(involves operator intervention to identify language)

- **Version 3**
- **Contact:** drt.fds@dsm-firmenich.com
- **Date of preparation / last revision 11/12/2024 / -**
- **Abbreviations and acronyms:**
CLP: Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging
H4R : Hydrocarbon Resins & Rosin Resins REACH Consortium - <https://h4rconsortium.com>
ECHA: European CHEmicals Agency
EC: European Commission
ISO : International Organization for Standardization
Directive 2012/18/EU: Directive of the European Parliament and of the Council of 4 July, on the control of major-accident hazards involving dangerous substances
IFRA : International Fragrance Association

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OECD: Organisation for Economic Co-operation and Development
ECVAM : European Centre for the Validation of Alternative Methods
QSAR: Quantitative Structure Activity Relationship
DNA: DeoxyriboNucleic Acid
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: very Persistent and very Bioaccumulative substance.
UVCB: Substances of unknown or variable composition, complex reaction products or biological materials
SVHC: Substances of Very High Concern
BCF: Bioconcentration Factor
CMR: Substance classified as Carcinogenic, Mutagenic or Toxic for Reproduction
Koc: Organic carbon/water partition coefficient. It represents the potential of retention of the substance on soil organic matter
NOEL: No Observed Effect Level
NOELr: Initial loading rate of the substance without observed effect
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
NOAEC: No Observed Adverse Effect Concentration
LOEC: Lowest Observed Effect Concentration
LOAEC: Lowest Observed Adverse Effect Concentration
LOAEL: Lowest Observed Adverse Effect Level
EC₁₀: Concentration which leads to a 10% reduction in treated organism responses compared to untreated organism responses (algae) or concentration which causes effects to 10 % of the tested organisms (daphnids)
EC₅₀: Concentration which leads to a 50% reduction in treated organism responses compared to untreated organism responses (algae) or concentration which causes effects to 50 % of the tested organisms (daphnids)
EL₅₀ : Loading rate which leads to a 50 % reduction in treated organisms responses compared to untreated organism responses (algae) or 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)
LC100 : Lethal concentration for 100% of exposed animals
GPMT: Guinea Maximisation Test - Magnusson and Kligman test
LLNA: Local Lymph Node Assay
CO₂: Carbon dioxide
NLP: No Longer Polymer
bw: body weight
dw: dry weight
ww : wet weight
ppm : parts per million

· **Sources** Literature and company data

· **Data compared to the previous version:**

Section 1 et 16 : Modification of the contact adress.

Section 15 : Modification of the TSCA data