

Safety Data Sheet acc. to OSHA HCS

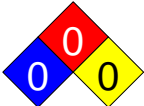
Printing date 01/18/2023

Reviewed on 01/18/2023

1 Identification

- **Product identifier**
- **Trade name: RESINOLINE® BD 2**
- **Substance name:**
CAS name: Fatty acids, tall-oil
CAS RN: 61790-12-3
- **Application of the substance / the mixture**
Relevant identified uses: production and distribution of the substance, alkyd resins, industrial oils, soaps, surfactants, bitumen emulsion, drilling fluids and fuel lubricity improvers.
- **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 : fds@drt.fr
- **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**
The substance is not classified, according to the Globally Harmonized System (GHS).
 - **Label elements**
 - **US label elements** Void
 - **Hazard pictograms** Void
 - **Signal word** Void
 - **Hazard statements** Void
 - **Classification system:**
 - **NFPA ratings (scale 0-4)**
- 

Health = 0
Fire = 0
Reactivity = 0
- **HMIS ratings (scale 0-4)**
- | | | |
|------------|---|----------------|
| HEALTH | 0 | Health = 0 |
| FIRE | 0 | Fire = 0 |
| REACTIVITY | 0 | Reactivity = 0 |
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not determined.

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· vPvB: Not determined.

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3 Composition/information on ingredients

- **Chemical characterization:** Substance UVCB
- **CAS Number:**
61790-12-3
Fatty acids, tall-oil
- **Identification number(s)**
- **EC number:** 263-107-3

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.
- **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 ophtalmologist.
- **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** In case of fire, may release irritant and acrid 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.

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Provide adequate ventilation

· **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:** 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.

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

Protect from heat.

Keep ignition sources away.

· **Conditions for safe storage**

Store 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.

· **Further information about storage conditions**

· **Recommended storage temperature:** 30°C (storage between 5 and 30°C).

8 Exposure controls/personal protection

· **Control parameters**

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

US-OSHA - Tall oil fatty acids (61790-12-3) Type : TWA Value:5 mg/M3 Form: Oil Mist; Respirable

ACGIH - Tall oil fatty acids (61790-12-3) Type : STEL Value:10 mg/M3 Form: Oil Mist; Respirable

Type : TWA Value:5 mg/M3 Form: Oil Mist; Respirable

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

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· **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.

· **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

9 Physical and chemical properties

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

· **General Information**

· Form:	Fluid
· Color:	Colorless-slightly amber
· Odor:	Odorless
· Odor threshold:	Not determined

· **Change in condition**

· Melting point/Melting range:	Not determined
· Boiling point/Boiling range:	> 300 °C (> 572 °F)
· Softening point R&B:	
· Pour point	≈ -6 °C (≈ 21.2 °F)

· **Flash point:** > 200 °C (> 392 °F)

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

· **Decomposition temperature:** Not determined

· **Danger of explosion:** The substance does not contain any chemical groups associated with explosive properties.

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

· **Specific gravity:**
· **Relative density at 20 °C (68 °F)** 0.90 - 0.91

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

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

· **Viscosity:**
· **Dynamic:** at 20 °C: 30 mPa.s
at 5°C: 48 mPa.s

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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** No dangerous reactions known.
- **Conditions to avoid** Keep away from heat and sources of ignition.
- **Incompatible materials:** Strong oxidants.
- **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 (oral, rat) > 2000 mg/kg for all constituents tested.
- **Primary irritant effect:**
- **on the eye:** May be irritating to the eyes. However, based on available data, the classification criteria are not met.
- **Sensitization:**
Not classified as skin sensitizer. Refer to document 'Tall oil fatty acids – Review of dermal sensitization hazard – prepared by Ramboll Environ US Corp available on HARRPA website.
- **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:** No aspiration hazard expected.
- **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

- **Aquatic toxicity:**
Tests carried out on a similar 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.
LL₅₀ (96 h), fish > 10000 mg/L (nominal concentration - OECD 203)
EL₅₀ (48 h), daphnids (Daphnia magna) > 10000 mg/L (nominal concentration - OECD 202)
EL₅₀ (72 h), algae > 1000 mg/L (biomass - nominal concentration - OECD 201)
NOEC (72 h), algae > 1000 mg/L (nominal concentration - OECD 201)
- **Toxicity to aquatic microorganisms**
EC₅₀ (3 h), bacteria > 1000 mg/L (ISO 10712)
NOEC (3 h), bacteria > 1000 mg/L (ISO 10712)
- **Persistence and degradability** No further relevant information available.

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- **Bioaccumulative potential** No data available.
- **Mobility in soil** No data available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not determined.
- **vPvB:** Not determined.
- **Other adverse effects** No data available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** 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. |
| · DOT, ADR | Void |
| · 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": | 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) | |
| 61790-12-3 | tall oil fatty acids |
- **Hazardous Air Pollutants** Substance is not 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.

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- **US label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
NJ-RTK : Not listed on either inventory
PA- RTK : Not listed on either inventory
CERCLA (40 CFR 302.4) : Not listed
EPA, Clean Water Act: Regulated as a non-petroleum based oil. Spills of this product into navigable waters in quantities sufficient to produce a "sheen" are reportable.
- **SARA Title III:**
SARA 302 (40 CFR 355) : Not listed
SARA 311/312 (40 CFR 370.2) : Not listed
SARA 313 (40 CFR 372.65) : Not 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.

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** 11
- **Contact:**
- **Date of preparation / last revision** 01/18/2023 / -

· **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

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

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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:** Change of emergency response service