

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/11/2023

Reviewed on 01/11/2023

### 1 Identification

· **Product identifier**

· **Trade name:** HYDROGRAL®

· **Substance name:** Rosin, hydrogenated

· **Common CAS No.:** 65997-06-0

· **Application of the substance / the mixture**

Relevant identified uses : Manufacture and distribution of the substance, adhesives, fragrances, coatings, synthesis intermediate, cleaning agents, binders and release agents, laboratory, rubbers, polymers, road and construction products, agrochemicals, lubricants, cosmetics, fuel, papers and boards.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Manufacturer / Supplier:

D.R.T

30 rue Gambetta

BP 90206

F-40105 DAX Cedex

FRANCE

Tel: 33 (0)558 566 200

Email: fds@drf.fr

Supplier:

PINOVA Inc.

2801 Cook Street

Brunswick, Georgia,

USA 31520

Email: msds@pinovasolutions.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** None

· **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.

P243

Take precautionary measures against static discharge.

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.

P280

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

(Contd. on page 2)

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/11/2023

Reviewed on 01/11/2023

**Trade name: HYDROGRAL®**

(Contd. of page 1)

- 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 soap and 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.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- 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.

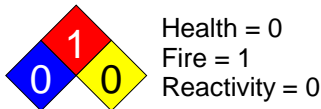
· **Information pertaining to particular dangers for man and environment:**

Inhalation (dust or vapours/fumes generated by heated products) 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

· **Classification system:**

· **NFPA ratings (scale 0-4)**



· **HMIS ratings (scale 0-4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:**

According to Annex XIII of REACH Regulation, the substance is not considered to be Persistent, Bioaccumulative and Toxic.

· **vPvB:**

According to Annex XIII of REACH Regulation, the substance is not considered to be very Persistent and very Bioaccumulative.

### 3 Composition/information on ingredients

· **Chemical characterization: Substance**

· **CAS Number:** 65997-06-0

· **Identification number(s)**

· **EC number:** 266-041-3

· **Description:**

CAS name : Rosin, hydrogenated

EC name : Rosin, hydrogenated

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/11/2023

Reviewed on 01/11/2023

Trade name: HYDROGRAL®

(Contd. of page 2)

### 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:**

Product at ambient temperature:

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.

Hot product:

Do not open eyelids if covered with resin. 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 doctors: Mineral oil may be used to loosen and soften the material.

### 5 Fire-fighting measures

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger 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:** Do not inhale explosion gases or combustion gases.

### 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 sewage system or any water course.

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.

(Contd. on page 4)

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/11/2023

Reviewed on 01/11/2023

**Trade name: HYDROGRAL®**

(Contd. of page 3)

Avoid as much as you can the formation of dust.  
Collect and seal in an appropriate container properly labelled for disposal.  
Dispose of the material collected according to regulations.

· **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.

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

Protect against electrostatic charges.

Use only non-sparking tools.

Protect from heat.

Keep ignition sources away.

Do not use compressed air and do not blow to remove resin dust when cleaning the working cloths or equipment.

Explosion proof vacuum extractor can be used (if an appropriate maintenance is carried out).

· **Conditions for safe storage**

Store if possible under cover in a dry, cool and well-ventilated area.

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.

All equipments including ventilation systems must be equipotential and earthed.

· **Further information about storage conditions**

· **Recommended storage temperature:** Store at a temperature between 5 and 30°C.

### 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/m<sup>3</sup>

- respirable dust 3 mg/m<sup>3</sup>

OSHA PEL TWA

- total dust 15 mg/m<sup>3</sup>

- respirable dust 5 mg/m<sup>3</sup>

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

(Contd. on page 5)

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/11/2023

Reviewed on 01/11/2023

**Trade name: HYDROGRAL®**

(Contd. of page 4)

· **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) 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**

· **Color:** Yellow  
· **Odor:** Light

· **Change in condition**

**Melting point/Melting range:** No Melting point is observed. However a glass transition is observed.  
**Boiling point/Boiling range:** Not applicable (the substance decomposes before boiling)  
**Softening point R&B:** 74 - 84 °C (165.2 - 183.2 °F) (Ring & Ball)  
Method : like ASTM E28

· **Flash point:** > 200 °C (> 392 °F) (closed cup)  
Method : like A9, Reg (EC) No 440/2008

· **Flammability (solid, gaseous):** Product is not flammable.  
Method : A10, Reg (EC) No 440/2008

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

· **Decomposition temperature:** > 300 °C (> 572 °F) (OECD 103)

· **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.

· **Vapor pressure at 20 °C (68 °F):** < 100 Pa (A4, Reg (EC) No 440/2008)

· **Specific gravity:**  
**Relative density at 20 °C (68 °F)** 1.05 (A3, Reg (EC) No 440/2008)  
**Vapor density** Not determined.

(Contd. on page 6)

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/11/2023

Reviewed on 01/11/2023

Trade name: HYDROGRAL®

(Contd. of page 5)

- |   |   |
|---|---|
| <b>· Solubility in / Miscibility with Water at 20 °C (68 °F):</b> | 1.18 mg/l (OECD 105)  |
| <b>· Partition coefficient (n-octanol/water): log Kow:</b>        | 2.3 to > 6 in unbuffered solution<br>2.5 to > 6 in media adjusted to pH 2 |
| <b>· Viscosity:</b>   |   |
| <b>Dynamic:</b>   | Not applicable.   |
| <b>· Additional information</b>                                   | No other data   |

### 10 Stability and reactivity

- **Reactivity** No data from specific reactivity tests are available for this product.
- **Chemical stability** The product is stable under normal storage and handling conditions.
- **Possibility of hazardous reactions**  
Dust may ignite on contact with electrostatic discharge or exposure to flamme or other sources of ignition.
- **Conditions to avoid** Avoid dust formation when handling the product.
- **Incompatible materials:** No incompatible materials known.
- **Hazardous decomposition products:** No dangerous decomposition products known.
- **Additional information:**  
The product is susceptible to compaction and oxidation during prolonged storage at a temperature above 30°C.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the eye:**  
It can be concluded from eye irritation studies on rabbit (OECD 405) carried out with similar substances that the classification criteria are not met for this substance.  
Fine particles and powder may cause eye irritation by mechanical effect.
- **Mutagenicity/genotoxicity:**  
No mutagenicity was observed with structurally related substances in several in vitro assays:  
- in bacteria (Ames test carried out according to OECD guideline 471);  
- in mammalian cells (mouse lymphoma – test carried out according to OECD guideline 476).  
No genotoxicity was observed in vitro with structurally related substances:  
- in a chromosome aberration test in human lymphocytes (test carried out according to OECD guideline 473).
- **Carcinogenicity:**  
Not expected to be carcinogenic based on the results of studies conducted on similar products: no genotoxic effects were observed and the repeated dose toxicity studies failed to show hyperplasia induction or pre-neoplastic lesions.
- **Specific target organ toxicity - single exposure:**  
No specific target organ toxicity was observed in the LD<sub>50</sub> determination studies.
- **Aspiration hazard:** Not applicable (solid).

(Contd. on page 7)

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/11/2023

Reviewed on 01/11/2023

**Trade name: HYDROGRAL®**

(Contd. of page 6)

**Additional toxicological information:**

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

### 12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability**  
By analogy with structurally related substances for which results of ready biodegradability assays (OECD 301 B – CO2 evolution and OECD 301 D - Closed bottle test) are available, the substance is considered to be ready biodegradable.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No data available.
- **Results of PBT and vPvB assessment**
- **PBT:**  
According to Annex XIII of REACH Regulation, the substance is not considered to be Persistent, Bioaccumulative and Toxic.
- **vPvB:**  
According to Annex XIII of REACH Regulation, the substance is not considered to be very Persistent and very Bioaccumulative.
- **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

· <b>UN-Number</b>	Not classified as a dangerous good under transport regulation.
· <b>DOT</b>	Void
· <b>UN proper shipping name</b>	Not classified as a dangerous good under transport regulation.
· <b>DOT</b>	Void
· <b>Transport hazard class(es)</b>	Not applicable.
· <b>DOT</b>	
· <b>Class</b>	Void
· <b>Packing group</b>	Not applicable.
· <b>DOT</b>	Void
· <b>Environmental hazards:</b>	Not classified as a dangerous good under transport regulation.
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

(Contd. on page 8)

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/11/2023

Reviewed on 01/11/2023

**Trade name: HYDROGRAL®**

(Contd. of page 7)

- |  |  |
|--|--|
| <b>· Transport/Additional information:</b> | Not dangerous according to the above specifications. |
| <b>· UN "Model Regulation":</b>            | Void   |

### 15 Regulatory information

- **SARA Section 355 (extremely hazardous substances)** No components listed.
- **SARA Section 313 (specific toxic chemical listings)** No components listed.
- **TSCA (Toxic Substances Control Act)** This product is listed on the Toxic Substance Control Act (TSCA) Inventory.
- **Prop 65 - Chemicals known to cause cancer or reproductive toxicity** Substance is not listed.
- **Carcerogenicity 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.
  - P243 Take precautionary measures against static discharge.
  - 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.
  - P280 Wear protective gloves/protective clothing/eye protection/face 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 soap and 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.
  - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P363 Wash contaminated clothing before reuse.
  - 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:** Occupational disease – only applicable to France. See French SDS version

### 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.

(Contd. on page 9)



## Safety Data Sheet acc. to OSHA HCS

Printing date 01/11/2023

Reviewed on 01/11/2023

**Trade name: HYDROGRAL®**

(Contd. of page 8)

This safety datasheet is provided only for information as it is not required according to article 31 of REACH regulation.

**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** 12.0· **Contact:** fds@drt.fr· **Date of preparation / last revision** 01/11/2023 / -· **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

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

EC<sub>10</sub>: 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)EC<sub>50</sub>: 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)EL<sub>50</sub>: 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)LC<sub>50</sub>: Lethal concentration for 50% of exposed animalsLD<sub>50</sub>: Lethal dose for 50% of animals exposed by oral or dermal routeLL<sub>50</sub>: 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

CO<sub>2</sub>: Carbon dioxide

NLP: No Longer Polymer

bw: body weight

dw: dry weight

ww : wet weight

ppm : parts per million

· **Sources**

REACH dossier data

(Contd. on page 10)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 01/11/2023

Reviewed on 01/11/2023

**Trade name: HYDROGRAL®**

Literature and company data

(Contd. of page 9)

· **Data compared to the previous version:** Change of emergency response service

US