

#### Last Revision: Dec-20-2019

# **SECTION 1. IDENTIFICATION**

#### 1.1 Product Information

Trade Name: Carbofen® Gold

Description: Fumarated Resin

## CAS Number / EC Number: 65997-04-8 / 266-040-8

**Relevant Identified Uses:** Plasticizer and air entraining agent for concrete and mortar. Anionic bitumen asphalt emulsifier for SS-1 and SS-1H emulsions for paving, micro surfacing, sealing and pavement rejuvenation applications. Tackifier for adhesives and sealants to bond engine parts, joints and pipes with applications in the automobile, chemical and petrochemical industries. Foundry molds and core washes.

## 1.2 Supplier of the Substance

Polytrade Indústria e Comércio Ltda. Av. República Argentina, 1237 Sala 901 Curitiba, Paraná, Brasil 80620-010 Phone: +55 (41) 4042-8888 **1.3 Emergency Telephone Number:** +55 (41) 4042-8888

#### Distributor:

R.E. Carroll, inc. 1570 N. Olden Avenue Ext. Ewing, N.J. 08638-3204 U.S. T: 609-695-6211/800-257-9365 Orders@RECarroll.com

# **SECTION 2. HAZARD(S) IDENTIFICATION**

## 2.1 Classification of Substance

This product is labeled according to GHS/CLP Classification (1272/2008):

Skin Irritation, 2H317 May cause an allergic reaction.Eye Irritation, 2AH320 Causes eye irritation.May form combustible dust concentrations in air.

## 2.2 Label Elements:



Signal Word: Warning

# Hazard Statements

H317 May cause an allergic reaction.

H320 Causes eye irritation.

May form combustible dust concentrations in air.

#### Precautionary Statements - Prevention

| Frecautionally State |   |
|----------------------|---|
| P202                 | Do not handle until all safety precautions have been read and understood.                     |
| P210                 | Keep away from heat/sparks/open flames/hot surfaces and other ignition sources.               |
| P243                 | Take precautionary measure against static discharge.  |
| P261                 | Avoid breathing dust/fume/gas/mist/vapors/spray.  |
| 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.                    |
| P284                 | In case of inadequate ventilation wear respiratory protection.                                |
| Precautionary State  | ments - Response  |
| P301+P312            | IF SWALLOWED: Call 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 for at least 10 minutes.                                |
| P304+P312            | IF INHALED: Call a doctor if you feel unwell.   |
| P304+P340            | IF INHALED: If breathing with difficulty, remove person to fresh air & keep comfortable.      |
| P305+P351+P338       | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present |
|                      | and easy to do so. Continue rinsing.  |
| P314                 | Get medical attention if you feel unwell.   |
| P333+P313            | If skin irritation or rash occurs: Get medical advice/attention.                              |
| P337+P313            | If eye irritation persists: Get medical advice/attention.                                     |
| P363                 | Wash contaminated clothing before reuse.  |



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#### Precautionary Statements - Storage

P402+P404 Store in a dry place. Store in closed container.

P403+P233 Store in well ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

## Information Pertaining to Particular Dangers for Individuals and the Environment:

WARNING! Solid product at ambient temperature. Static charges generated by emptying package in or near flammable vapors may cause a flash fire. May form flammable dust-air mixtures. May cause eye irritation by mechanical abrasion. May cause skin irritation by mechanical abrasion. Inhalation of dust may cause respiratory tract irritation. May cause allergic skin reaction (sensibilization) in susceptible individuals.

# SECTION 3. COMPOSITIONS / INFORMATION ON INGREDIENTS

#### 3.1 Chemical Characterization: Substance

| Substance       | CAS Number EC Number |           | Weight (%) | CLP/GHS Classification (1272/2008) |
|-----------------|----------------------|-----------|------------|------------------------------------|
| Fumarated Resin | 65997-04-8           | 266-040-8 | 100%       | Skin Irritation: 2; H317           |
| Fumaraleu Kesin |                      |           |            | Eye Irritation: 2A; H320           |

# **SECTION 4. FIRST AID MEASURES**

## 4.1 Description of First Aid Measures

General First Aid Measures: If you feel unwell, seek medical advice.

After Inhalation: Remove to fresh air. Get medical attention if nasal, throat or lung irritation develops.

After Skin Contact: Wash thoroughly with plenty of water for at least 10 minutes. Remove contaminated clothing. Get medical attention if irritation persist. Thoroughly wash clothing before reuse.

After Eye Contact: Remove contact lenses. Hold lids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists.

After Swallowing: No adverse effects are expected from accidental ingestion of small amounts of this product. For ingestion of large amounts: Do not induce vomiting. Obtain immediate medical attention.

**Information for Doctor:** This product contains rosin/rosin derivatives. They have been reported to cause allergic skin reaction (sensibilization) in susceptible individuals after repeated or prolonged skin contact.

## 4.2 Most Important Symptoms and Effects Both Acute and Delayed:

Symptoms/Injuries: Inhalation and skin contact are expected to be primary routes of occupational exposure.

After Inhalation: Dust may cause sneezing and slight nose irritation.

After Skin Contact: Dust may cause slight skin irritation.

After Eye Contact: Dust may cause slight eye irritation with eye redness and/or mechanical injury.

After Swallowing: May cause indigestion. Seek medical attention.

Chronic Symptoms: None known.

**4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:** No further relevant information available. But if exposed or concerned, seek medical advice.

# SECTION 5. FIRE-FIGHTING MEASURES

## 5.1 Extinguishing Media

**Suitable mean:** Water, dry chemical, foam, carbon dioxide or clean extinguishing agents may be used on fires involving this product.

Unsuitable mean: Do not use water jet.

5.2 Special Hazards Arising from the Substance

Fire Hazard: May form flammable dust-air mixtures.

Explosion Hazard: None.

Reactivity: Not applicable.

Hazardous Combustion Products: If heated to combustion, the following substances may be formed: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), aldehydes, carboxylic acids, smoke.

5.3 Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.



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**Firefighting Instructions:** Use water/fog spray for cooling exposed containers. Remove containers from fire area if this can be done without risk. In case of a major fire and large quantities: evacuate area. Do not breathe fumes from fires. **Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires involving this product.

Special Protection Needed: No extra special protective equipment required.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Personal Protection: Use personal protective equipment (detailed information in Section 8). Ventilate area. Avoid dust formation.

## 6.2 Environmental Precautions:

Avoid dispersion into municipal water, river courses or come in contact with the ground (earth).

## 6.3 Methods and Material for Containment and Cleaning Up

For Containment: Prevent further leakage or spillage if safe to do so.

**Methods for Clean up**: If product is not contaminated, scoop into clean containers for use. If product is contaminated, scoop into containers and dispose appropriately. Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with good industrial hygiene and safety practices.

**6.4 Reference to Other Sections**: No dangerous substances are released.

# SECTION 7. HANDLING AND STORAGE

## 7.1 Precautions for Safe Handling:

Ground all equipment. Ground operator and pour materials slowly into conductive, grounded chute. For large bags (1000 lbs or greater) a ground cable MUST be attached to the bag ground connection.

## Information about Protection Against Explosions and Fires:

Avoid conditions that generate dust; product may form flammable dust-air mixtures. Avoid emptying package in or near flammable vapors; static charges may cause flash fire. Keep away from heat, flame, sparks and other ignition sources. Spontaneous heating may occur if stored in a non-ventilated area at elevated temperatures.

## 7.2 Conditions for Safe Storage, Including Any Incompatibilities:

**Storage Conditions to be met by Storerooms and Receptacles:** Store in dry, cool and well-ventilated place. Keep away from temperatures above 35°C (95°F), direct sunlight, ignition sources and incompatible materials. Keep container closed when not in use. Store locked up. Control inventory. Use oldest material first.

Materials for Packaging: Paper bags of 25 kgs (approx. 55 lbs) or Big Bags of 1,000 kgs (approx. 2,204 lbs). Incompatible Materials: Acids. Flame, heat and electric discharge.

# **SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**8.1 Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of workplace. Ensure adequate ventilation in confined areas. Investigate engineering techniques to reduce exposures to dust. Eliminate ignition sources and prevent build-up of static electrical discharges with proper grounding procedures. Completely isolate and thoroughly clean all equipment, piping or vessels before beginning maintenance or repairs. Keep area clean. Ensure all national/regional regulations are observed.

#### 8.2 Control Parameters

Components with Limit Values that Require Monitoring at the Workplace:

| Substance                           | TLV |
|-------------------------------------|-----|
| Fumarated Resin: CAS No. 65997-04-8 | SEN |

Additional Occupational Exposure Limit Values for Possible Hazards During Processing: This product may present an inhalation health hazard if used under conditions that could generate dust.

PARTICULATES (INSOLUABLE) NOT OTHERWISE SPECIFIED (PNOS): If used conditions that generate particles, the ACGIH TLV-TWA of 3 mg/m<sup>3</sup> respirable fraction (10 mg/m<sup>3</sup> total) should be observed.

#### 8.3 Exposure Controls



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**General Protective and Hygienic Measures:** Avoid contact with eyes, skin and clothing. Avoid breathing dust or fumes. Handle in areas with adequate ventilation. Avoid contamination of food, beverage or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse. Wash hands before breaks and at the end of work. Avoid contact with eye and skin. **Respiratory Protection**: Appropriate respiratory protection equipment 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 manufacture recommendations.

Hand Protection: Wear impervious gloves. The glove has to be impervious and resistant to product and preparation. Eye Protection: Use tightly sealed goggles.

Skin and Body Protection: Wear suitable protective clothing.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on Basic Physical and Chemical Properties

| 5.1 mornation on basic rifysical and enemical rioper | 103                              |
|--|----------------------------------|
| Appearance (at 20 °C / 68 °C):                       | Flakes / Laminated               |
| Odor:  | Pine characteristic odor         |
| Odor Threshold                                       | No data available                |
| Color:   | Dark reddish-gold color          |
| pH Value (in 2% ethanol solution):                   | 5.0 - 6.0                        |
| Initial Boiling Point / Boiling Range:               | > 300 °C (> 572°C)               |
| Melting Point / Freezing Point:                      | No data available                |
| Softening Point, ASTM E28 (B&R °C):                  | 100 °C to 120 °C (212 °F−240 °F) |
| Flash Point:   | 268 °C (546.8 °F)                |
| Evaporation Rate:                                    | Not applicable                   |
| Flammability:  | No data available                |
| Upper / Lower Flammability:                          | No data available                |
| Explosive Limits:                                    | No data available                |
| Vapor Density:                                       | Not applicable                   |
| Vapor Pressure:                                      | Not applicable                   |
| Partition Coefficient: n-octanol/water:              | No data available                |
| Relative Density (at 20 °C / 68 °F):                 | 0.3 – 0.50 g/cm <sup>3</sup>     |
| Water Solubility:                                    | Insoluble                        |
| Soluble in:  | Acetone, Ethanol                 |
| Decomposition Temperature:                           | No data available                |
| Viscosity (50% in anhydrous ethanol solution):       | 110 Cps                          |
| Acid Number (ASTM D465, mg KOH/g):                   | 80 - 100                         |
|  |                                  |

# SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive under normal conditions.

10.2 Chemical Stability: Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions: None under normal processing, handling and storage conditions.

**10.4 Conditions to Avoid**: Avoid dust dispersion into the air, keep away from open flames, sparks, smoking, static electricity, electrical discharges and incompatible materials.

10.5 Incompatible Materials: Acids. Flame, heat and electric discharge.

**10.6 Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

## Information on Acute Toxicity:

**LD/LC50 values that are relevant for classification**: SIMILAR PRODUCT – Ninety-day oral subacute no effect level (rat): NOEL = 0.2 – 0.1% in diet. Signs of toxicity included refusal to eat, weight loss and death at highest level, depressed



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weight gain and liver enlargement. Two-year chronic oral no effect level (rat, dog): NOEL = 0.05% in diet. Signs of toxicity include temporary weight depression and liver enlargement in both species.

| Chemical Name      | Oral LD50           | Dermal LD50         | Inhalation LC50 |  |  |
|--------------------|---------------------|---------------------|-----------------|--|--|
| Fumarated Resin    | > 2000  mg/kg (Pat) | > 2000  mg/kg (Pat) |                 |  |  |
| Cas No. 65997-04-8 | > 2000 mg/kg (Rat)  | > 2000 mg/kg (Rat)  | -               |  |  |

## **Primary Irritant Effect:**

On the Skin: No irritant effect.

On the Eye: The fine particles and powder should be regarded as an inert, nuisance dust.

**Respiratory or Skin Sensitization**: Due to the physical nature of this material, may cause eye, skin and respiratory irritation. This product contains rosin or a rosin derivative. Rosin and its derivatives have been reported to cause allergic skin reaction (sensitization) in susceptible individuals after repeated or prolonged contact.

#### Additional Toxicological Information

No mutagenicity studies have been carried out with this product.

**Carcinogenicity**: Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive Toxicity: Not classified.

## 11.2 Information on Physical, Chemical and Toxicological Effects

Symptoms/injuries: Please refer to Section 4 of this SDS for symptoms.

# **SECTION 12. ECOLOGICAL INFORMATION**

#### 12.1 Information on Ecological Toxicity

| LC50 Fish    | 38.5 mg/L (Exposure time: 96 hrs – Species: Zebra Fish)           |
|--------------|---|
| NOEC Fish    | 16.6 mg/L (Exposure time: 96 hrs – Species: Zebra Fish)           |
| EC50 Daphnia | 143.6 mg/L WAF (Exposure time: 48 hrs – Species: Daphnia similis) |

12.2 Persistence and Degradability: No further relevant information available.

12.3 Bioaccumulative Potential: No further relevant information available.

12.4 Mobility in Soil: No further relevant information available.

12.5 Additional Ecological Information: Avoid dispersion of product in water courses, ground water or sewage system.

12.6 Results of PBT and vPvB Assessment: PBT: Not Applicable. vPvB: Not Applicable.

12.7 Other Adverse Effects: No further relevant information available.

# SECTION 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste Treatment Methods

**Waste Disposal Recommendations**: Landfilling in a permitted solid or hazardous waste facility, meeting technical regulatory requirements, is recommended. Handling, transportation, and disposal of material should be conducted in a manner to prevent nuisance dust hazard. Fully containerize the product before handling and protect from exposure to the outdoors. Dispose of contents/container in accordance with local/regional/national/international regulations. Additional Information: Packaging must be emptied of its contents and be disposed of properly in accordance with the legal requirements. Paper bags and big bags can be recycled.

# **SECTION 14. TRANSPORT INFORMATION**

The shipping descriptions stated herein were prepared in accordance with certain assumptions at the time the SDS was authorized and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. Note: Please see current BL for most up to date information, including exemptions and exceptional circumstances.

14.1 Substance identification number (UN number): Not regulated as dangerous goods.

14.2 Transport by road/rail (ADR/RID): Not dangerous.

14.3 Maritime transport (IMDG code): Not dangerous.

**12.4 Inland navigation (ADNR):** Not dangerous.

14.5 Air freight (ICAO): Not dangerous.

14.6 Special Precautions for User: Not applicable.

Transport in Bulk According to Annex of MARCOPOL73/78 and IBC Code: Not applicable.



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# SECTION 15. REGULATORY INFORMATION

#### 15.1 International Inventories

|                                       | TSCA    | DSL     | EINECS /<br>ELINCS | ENCS | IECSC   | KECI | PICCS   | AICS    | NIZoC   |
|---------------------------------------|---------|---------|--------------------|------|---------|------|---------|---------|---------|
| Fumarated Resin<br>Cas No. 65997-04-8 | Present | Present | Present            | Х    | Present | Х    | Present | Present | Present |

Legend: TSCA: United States Toxic Substances Control Act Section 8 (b) Inventory

DSL: Canadian Domestic Substances List

EINECS / ELINCS: European Inventory of Chemical Substances

ENCS: Japan Existing and New Chemical Substances

IECSC: China Inventory of Existing Chemical Substances

KECI: Korean Existing and Evaluated Chemical Substances

PICCS: Philippines Inventory of Chemicals and Chemical Substances

AICS: Australian Inventory of Chemical Substances

NIZoC: New Zealand Inventory

Safety, health and environmental regulations / legislation specific for the mixture: EU regulations, directive 96/82/EC on the control of major-accident hazards involving dangerous substances (Störfall-Verordnung). Comment Annex I, part 1 + 2: not mentioned. For any resulting decomposition products see chapter 10.

## **15.2 US Regulations**

## Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

SARA 350 (extremely hazardous substances): None of the ingredients is listed.

SARA 313 (specific toxic chemical listings): This product does not contain any chemicals subject to the reporting requirements under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372. SECTIONS 302/304: This product is not an Extremely Hazardous Substance subject to reporting under 40CFR372. SECTION 311 and 312:

HC-1 Acute 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.

#### California Proposition 65:

This product does not contain any Proposition 65 chemicals.

# SECTION 16. OTHER INFORMATION, INCLUDING DATE OF LAST REVISION

#### Data Sources used to Create the Datasheet:

EC Directive 67/548/EC or 99/45/EC as amended.

Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP), as amended.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC.

Transport regulations according to ADR, RID, IMDG, IATA in the currently valid version.

GHS Book, Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – Purple Book, 2005.

#### Product Shelf Life: 3 years.

Publishing Date: October-08-2019

Last Revision Date: December-20-2019

**Disclaimer:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, belief and experience at the date of publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and it is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in text.

- End of Safety Data Sheet -