



Material Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH) and its amendment (EU) 2020/878 (Annex II)

Hydrogenated Hydrocarbon Resin ER-320

MSDS No.:402.08

Revision Date:18/12/2025

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

- **Product Name:** Hydrogenated Hydrocarbon Resin ER-320
- **Chemical Name:** Naphtha (petroleum), light steam-cracked, debenzenized, polymers, hydrogenated
- **Synonyms:** Petroleum resin; cyclodiene resin, hydrogenated
- **CAS Number:** 69430-35-9

1.2. Relevant identified uses of the substance or mixture and uses advised against

- **Identified uses:** Additives for adhesives, paints, coatings, inks

1.3. Details of the supplier of the safety data sheet

Company Name	EcoGreen Chemicals (Zhangzhou) Co., Ltd.
Address	No.518, Shugang Road, Gulei Port Economic Development Zone, Zhangzhou China.
Postal Code	363216
Tel	+86-596-3747119
Fax	+86-596-3747119
Email	info@ecogreen.com
Web	http://www.ecogreen.com

1.4. Emergency telephone number

- **Company emergency number:** +86-596-3747119
- **China National Poisons Control Centre:** +86-10-63131122

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008 (CLP):** Not classified as hazardous.
- **Other classifications:** None.

2.2. Label elements

- **According to CLP Regulation, labelling is not required.**
- **Hazard pictograms:** None.



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- **Signal word:** None.
- **Hazard statements (H-phrases):** None.
- **Precautionary statements (P-phrases):** None.

2.3. Other hazards

- **Results of PBT and vPvB assessment:** Not applicable (PBT: No, vPvB: No).
- **Endocrine disrupting properties:** Not applicable.
- **Other physical hazards:** May form combustible dust concentrations in air (during processing/handling). Material can accumulate static charges which may cause an ignition. Spilled pellets present a slipping hazard.
- **Health hazards:** If dust is generated, it could scratch the eyes and cause minor irritation to the respiratory tract. When heated, vapors/fumes may cause respiratory tract irritation.
- **Environmental hazards:** No significant hazards identified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

- **Chemical Name:** Hydrocarbons, C6-20, polymers, hydrogenated
- **CAS No.:** 69430-35-9
- **Concentration:** ≥ 99.5%
- **Note:** This material is defined as a complex substance (UVCB). May contain varying levels of antioxidants. No hazardous substances requiring disclosure based on available data.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

- **Inhalation:** At ambient temperatures, no adverse effects expected. In case of exposure to vapors/aerosols at elevated temperatures, move to fresh air. If breathing is difficult, administer oxygen. If breathing stops, give artificial respiration. Seek medical attention if irritation persists.
- **Skin contact:** Wash with soap and water. For contact with hot material: Immediately cool affected area with plenty of cold water for several minutes. Cover with a sterile dressing. Seek medical attention for burns.
- **Eye contact:** Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open. Seek immediate medical attention.
- **Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Seek medical advice if discomfort occurs.
- **Most important symptoms and effects:** No specific symptoms known.
- **Note to physician:** Treat symptomatically.

4.2. Indication of any immediate medical attention and special treatment needed: None.



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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

- **Suitable:** Water fog, foam, dry chemical, carbon dioxide (CO₂).
- **Unsuitable:** Do not use straight water jets.

5.2. Special hazards arising from the substance or mixture

- **Hazardous combustion products:** Flammable hydrocarbons, carbon oxides, smoke, fumes.
- Containers may rupture under fire conditions.
- Fine dust dispersed in air can form explosive mixtures.

5.3. Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool exposed containers with water spray to prevent re-ignition and rupture.
- Prevent runoff from fire control from entering drains or watercourses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Avoid dust generation. Wear appropriate protective equipment (see Section 8).
- Ventilate the area.

6.2. Environmental precautions

- Prevent entry into sewers, waterways, and soil.
- Notify authorities if a significant spill enters the environment.

6.3. Methods and material for containment and cleaning up

- **For dry spills:** Collect spilled material mechanically (e.g., with a clean shovel) and place in a suitable container for disposal.
- Avoid creating dust clouds.
- **For spills into water:** Contain if possible. The material will sink. Seek expert advice.

6.4. Reference to other sections: See Sections 8 and 13.



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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

- Minimize dust generation and accumulation. Use local exhaust ventilation.
- Implement grounding and bonding procedures to prevent static charge accumulation.
- Use non-sparking tools in areas where dust is present.
- Avoid prolonged exposure to elevated temperatures.
- Keep away from heat, sparks, open flames, and hot surfaces.

7.2. Conditions for safe storage, including any incompatibilities

- Store in a cool, dry, well-ventilated place.
- Keep containers tightly closed.
- Storage temperature: Store below the softening point to prevent caking/agglomeration.
- Incompatible materials: Strong oxidizing agents.
- Suitable packaging: Paper/plastic composite bags, polyethylene, polypropylene.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

- Occupational exposure limits: Not established.
- DNELs/PNECs: Not determined.

8.2. Exposure controls

- **Engineering measures:** Use closed systems and local exhaust ventilation. Ensure equipment is designed to prevent dust explosions.
- **Personal protective equipment (PPE):**
 - Respiratory protection:** In case of inadequate ventilation or dust generation, use a dust mask (EN 149 FFP2/FFP3 or equivalent). For emergency situations, use self-contained breathing apparatus.
 - Hand protection:** Wear protective gloves (e.g., nitrile rubber) to prevent mechanical irritation.
 - Eye protection:** Safety glasses with side shields.
 - Skin and body protection:** Wear appropriate work clothing.
- **Hygiene measures:** Wash hands thoroughly after handling. Do not eat, drink, or smoke in work area.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value/Description
Physical State	Solid
Appearance	Light Colored, Granule, Powder, Flake.
Odor	None to Mild.
pH	Not applicable.
Oxidizing Properties	Not an oxidizer.
Boiling Point, °C	Not applicable.
Vapor Density (Air = 1)	Not applicable.
Vapor Pressure (at 20 °C), mmHg	Not applicable.
Heat Of Combustion, kJ/mol	Not determined.
Critical Temperature, °C	Not determined.
Critical Pressure, MPa	Not applicable.
Partition Coefficient (n-Octanol/Water)	Not applicable.
Flash Point, °C/°F	200 / 392 (Cleveland Open cup Flash Point).
Tg, °C	76.
Viscosity(@180°C), cPs	800-1000.
Auto Ignition Temperature, °C	Not determined.
Decomposition Temperature, °C	Not determined.
Combustion Limits, %(V/V)	Not determined.
Lower Flammability Limit, %(V/V)	Not determined.
Solubility in Water	Negligible.
Other Physical And Chemical Properties	See the TDS.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Stable under normal conditions.

10.2. Chemical stability: Stable.

10.3. Possibility of hazardous reactions: Hazardous polymerization will not occur.

10.4. Conditions to avoid: Excessive heat, open flames, ignition sources.

10.5. Incompatible materials: Strong oxidizing agents.

10.6. Hazardous decomposition products: Carbon oxides, smoke, fumes upon incomplete combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute Oral (LD ₅₀ , rat): Not determined; Acute Dermal (LD ₅₀ , rabbit): Not determined.
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Skin corrosion/irritation	Not determined.
Serious eye damage/irritation	Not determined.
Respiratory or skin sensitization	Not determined.
Germ cell mutagenicity	Not determined.
Carcinogenicity	Not determined.
Reproductive toxicity	Not determined.
STOT-single exposure	Not determined.
STOT-repeated exposure	Not determined.
Aspiration hazard	Not determined.
Endocrine disrupting properties	Not identified.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Material -- Not expected to be harmful to aquatic organisms. Material -- Not expected to be harmful to terrestrial organisms.
Persistence and degradability	Biodegradation: Material -- Expected to be persistent.
Bioaccumulative potential	Material -- Potential to bioaccumulate is low.
Mobility in soil	Majority of components -- Expected to partition to sediment and wastewater solids. Minimally volatile.
Results of PBT and vPvB assessment	Not a PBT or vPvB substance.
Endocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.
Other hazards	Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Dispose of in accordance with all applicable local, national, and international regulations. Incineration in a permitted waste incineration plant is an option. Do not contaminate water or soil with waste.
Uncleaned packaging:	Dispose of as product waste.

SECTION 14: TRANSPORT INFORMATION

UN Number	Not regulated for transport.
UN Proper Shipping Name	Not regulated for transport.
Transport Hazard Class(es)	Not regulated for transport.



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Packing Group	Not regulated for transport.
Environmental Hazards	Not classified as a Marine Pollutant.
Special precautions	No special requirements.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I: Substance is not listed.
- Seveso category: Not applicable
- Qualifying quantity (tonnes) for the application of lower-tier requirements: Not applicable
- Qualifying quantity (tonnes) for the application of upper-tier requirements: Not applicable

REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)	Substance is not listed.
Regulation (EU) No 649/2012	Substance is not listed.

- REGULATION (EU) 2019/1148:

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	Substance is not listed.
AnnexII - REPORTABLE EXPLOSIVES PRECURSORS	Substance is not listed.
Regulation (EC) No 273/2004 on drug precursors	Substance is not listed.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	Substance is not listed.
REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone- depleting potential)	Substance is not listed.

- Other regulations, limitations and prohibitive regulations:

SVHC Candidate List of REACH Regulation Annex XIV Authorisation (14/6/2023)	Substance is not listed.
REACH Regulation Annex XVII Restriction (8/6/2023) See Section 16 for information about restriction of use.	Substance is not listed.
REACH Regulation Annex XIV Authorisation List (8/4/2022)	Substance is not listed.

15.2. Chemical safety assessment: A Chemical Safety Assessment (CSA) has not been carried out for this substance.



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SECTION 16: OTHER INFORMATION

· Recommended restriction of use: Not applicable.

· The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: U.S. Dept. of Transportation

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicter No-Effect Concentration (REACH)

NIOSH: National Institute for Occupational Safety and Health

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

· **Disclaimer:**

The information contained herein is based on the present state of our knowledge and is intended to describe the product for safety handling. It does not constitute a warranty of quality or property. Users are responsible to ensure safe handling practices comply with their specific conditions and applicable regulations.