



Resin Chemicals Co., Ltd

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: HFM100

Product Class: Hydrogenated hydrocarbon resin

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

Identified uses: Additive for adhesives, paints, coatings, Inks

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

Resin Chemicals Co., Ltd
PANYU DISTRICT, GUANGZHOU,

Guangdong China

Visit our website at <http://www.resinchemicals.com>

1.4 Emergency telephone number:

For emergency health, safety, and environmental information, call 86-20-39986626

SECTION 2: Hazards identification

CAUTION!

MOLTEN MATERIAL WILL PRODUCE THERMAL BURNS

SECTION 3: Composition/information on ingredients

3.1 / 3.2 Substances / Mixtures

General information:

Chemical name	CAS NO.	Weight % Range
Hydrogenated hydrocarbon resin HFM100	69430-35-9	>99.2
Stabilizer	Proprietary	<0.8

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:

Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Eye contact:

Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist. If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact:

Wash with soap and water. Get medical attention if symptoms occur. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Get medical attention.

Ingestion:

Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed:

Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from the skin is not necessary.

4.3 Indication of any immediate medical attention and special treatment needed

Contact with molten substance/product may cause severe burns to skin and eyes.

Treatment:

Treat symptomatically.

SECTION 5: Firefighting measures

Hazards:

General fire hazards:

Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.

5.1 Extinguishing media

Suitable

Water spray. Dry chemical. Carbon Dioxide.

extinguishing media:

Unsuitable

None known.

extinguishing media:

5.2 Special hazards arising from the substance or mixture:

Powdered material may form explosive dust-air mixtures.

5.3 Advice for firefighters

Special Fire Fighting

Procedures:

Minimize dust generation and accumulation.

Special protective

equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

- | | |
|---|---|
| 6.1 Personal precautions, protective equipment and emergency procedures: | Wear appropriate personal protective equipment. |
| 6.2 Environmental precautions: | Not regarded as dangerous for the environment. |
| 6.3 Methods and material for containment and cleaning up: | Sweep up and place in a clearly labeled container for chemical waste. |
| Notification Procedures: | In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. |

SECTION 7: Handling and storage:

- | | |
|--|-------------------------------------|
| 7.1 Precautions for safe handling: | Avoid contact with molten material. |
| 7.2 Conditions for safe storage, including any incompatibilities: | Keep container closed. |
| 7.3 Specific end use(s): | Adhesive |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Occupational exposure limits

If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.2 Exposure controls Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information: Eye bath. Washing facilities.

Eye/face protection: It is a good industrial hygiene practice to minimize eye contact. Wear a face shield when working with molten material.

Skin protection
Hand protection:

It is a good industrial hygiene practice to minimize skin contact. When material is heated, wear gloves to protect against thermal burns.

Other:

No data available.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Hygiene measures:

Observe good industrial hygiene practices.

Environmental Controls:

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical

properties Appearance

Physical State:	Solid
Form:	Pellet
Color:	Water white
Odor:	Odorless
Odor Threshold:	Not determined.
pH:	No data available.
Softening Point:	100°C-105 °C
Boiling Point:	No data available.
Flash Point:	270°C (Closed Cup)
Evaporation Rate:	Not determined.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)—:	No data available.
Flammability Limit - Lower (%)—:	No data available.
Vapor pressure:	Not determined.
Vapor density (air=1):	No data available.
Specific Gravity:	1.07-1.10
Solubility(ies)	Insoluble
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.

Viscosity:	75 cps(200℃)
Molecular Weight:	Approx 630 (,Mw)

SECTION 10: Stability and reactivity

10.1 Reactivity: None known.

10.2 Chemical stability: Stable

10.3 Possibility of hazardous reactions: None known.

10.4 Conditions to avoid: Avoid Heat, Flames, Sparks and Other Sources of Ignition

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: Carbon Oxides. Nitrogen Oxides

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: None known.

Ingestion: None known.

Skin contact: Molten material will produce thermal burns.

Eye contact: Molten material will produce thermal burns.

11.1 Information on toxicological effects

Acute Toxicity

Oral

Product: No data available.

Specified substance(s)

hydrocarbon resin	Oral LD-50: (Rat): > 5,000 mg/kg (highest dose tested)
mineral oil	No data available.
stabilizer(s)	No data available.

Dermal

Product: No data available.

Specified substance(s)

hydrocarbon resin	Dermal LD-50: (Rat): > 2,000 mg/kg (highest dose tested)
mineral oil	No data available.
stabilizer(s)	No data available.

Inhalation	
Product:	No data available.
Specified substance(s)	
hydrocarbon resin	No data available.
mineral oil	No data available.
stabilizer(s)	No data available.
Repeated dose toxicity	
Product:	No data available.
Specified substance(s)	
hydrocarbon resin	No data available.
mineral oil	No data available.
stabilizer(s)	No data available.
Skin corrosion/irritation:	
Product:	No data available.
Specified substance(s)	
hydrocarbon resin	(Guinea Pig, 24 h): none
mineral oil	No data available.
stabilizer(s)	No data available.
Serious eye damage/eye irritation:	
Product:	No data available.
Specified substance(s)	
hydrocarbon resin	unwashed eyes (Rabbit): Slight
	washed eyes (Rabbit): Slight
mineral oil	No data available.
stabilizer(s)	No data available.
Respiratory or skin sensitization:	
Product:	No data available.
Specified substance(s)	
hydrocarbon resin	(Guinea Pig) - Not a skin sensitizer.
mineral oil	No data available.
stabilizer(s)	No data available.
Germ cell mutagenicity	
In vitro	
Product:	No data available.
Specified substance(s)	
hydrocarbon resin	No data available.
mineral oil	No data available.
stabilizer(s)	No data available.

In vivo**Product:** No data available.**Specified substance(s)**

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

Carcinogenicity**Product:** No data available.**Specified substance(s)**

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

Reproductive toxicity**Product:** No data available.**Specified substance(s)**

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

Specific target organ toxicity - single exposure**Product:** No data available.**Specified substance(s)**

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

Specific target organ toxicity - repeated exposure**Product:** No data available.**Specified substance(s)**

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

Aspiration hazard**Product:** No data available.**Specified substance(s)**

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

Other adverse effects:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

Aquatic invertebrates

Product: No data available.

Specified substance(s)

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

Aquatic invertebrates

Product: No data available.

Specified substance(s)

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

12.2 Persistence and degradability

Biodegradation

Product: No data available.

Specified substance(s)

hydrocarbon resin No data available.
mineral oil No data available.
stabilizer(s) No data available.

**Biological Oxygen Demand:
Product**

No data available.

Specified substance(s)

hydrocarbon resin

No data available.

mineral oil

No data available.

stabilizer(s)

No data available.

**Chemical Oxygen Demand:
Product**

No data available.

Specified substance(s)

hydrocarbon resin

No data available.

mineral oil

No data available.

stabilizer(s)

No data available.

**BOD/COD ratio
Product**

No data available.

Specified substance(s)

hydrocarbon resin

No data available.

mineral oil

No data available.

stabilizer(s)

No data available.

12.3 Bioaccumulative potential

Product:

No data available.

Specified substance(s)

hydrocarbon resin

No data available.

mineral oil

No data available.

stabilizer(s)

No data available.

12.4 Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

hydrocarbon resin

No data available.

mineral oil

No data available.

stabilizer(s)

No data available.

**12.5 Results of PBT and vPvB
assessment:**

No data available.

hydrocarbon resin

No data available.

mineral oil

No data available.

stabilizer(s)

No data available.

12.6 Other adverse effects:

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:

No data available.

Disposal Methods:

Dispose of waste and residues in accordance with local authority requirements. Incinerate.

SECTION 14: Transport information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT

Class not regulated

IMDG - International Maritime Dangerous Goods Code

Class not regulated

IATA

Class not regulated

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

OSHA: nonhazardous

Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

SECTION 16: Other information

HMIS® Hazard Ratings: Health - 1, Flammability - 1, Chemical Reactivity - 0

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Revision Information: New SDSNew SDS

Key literature references and sources for data: No data available.

Training information: No data available.

Issue Date: 05/23/2010

SDS No:

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.