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ZCRESIN MATERIAL SAFETY DATA SHEET ML100 Speciality Resin

Company: Guangxi Zhongchang Resin Co., Ltd

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Guangxi Zhongchang Resin Co.,Ltd

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Intended use: Chemical intermediate used for manufacture of industrial products.

1.PRODUCT IDENTIFICATION

Product name ML100 speciality resin
Chemical Description Modified rosin ester
Chemical Family organic acids

2.COMPOSITION / INFORMATION ON INGREDIENTS

| Name | CAS# | % by Weight |
|-----------------------|------------|-------------|
| ML100 specialty resin | 68038-41-5 | 100 |

See Section 8 for Exposure Controls/ Exposure Limits/ Personal Protection information.

3.HAZARDS IDENTIFICATION

HMIS

health hazard 1 fire hazard 1 Reactivity 0

Personal Protection see Section 8 of this MSDS.

0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe; (*)=Chronic health hazard.

EMERGENCY EXPOSURE

Dust may cause some irritation. On heating, this product may generate fumes that irritate the eye and may cause respiratory irritation with throat discomfort, coughing, or difficulty breathing.

POTENTIAL HEALTH EFFECTS

Eye contact

Dust may cause some irritation.

Rubbing may cause abrasion of the cornea. Symptoms may include irritation, redness, scratching of the cornea, and tearing. Vapors may also cause eye irritation. If heated product contacts the eye, thermal burns may result.

Skin Contact

Prolonged or repeated skin contact may cause irritation. When it is heated, this product may cause thermal burns.

Inhalation

Dust may cause some irritation. On heating, this product may generate fumes that irritate the eye and may cause respiratory irritation with throat discomfort, coughing, or difficulty breathing.

Ingestion

Ingestion may cause some irritation.

4.FIRST AID MEASURES

EYE CONTACT

Rinse immediately with plenty of water for at least 15 minutes and seek medical attention immediately.

SKIN CONTACT

In case of skin contact, wash immediately with soap and water. If irritation develops or persists, get medical attention.

INHALATION

Seek medical attention if irritation persists.

INGESTION

Contact a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by medical personnel.

5.FIRE FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT

Flammable.

AUTO-IGNITION TEMPERATURE

Not available.

FLASH-POINT

CLOSED CUP: 263°C.

FLAMMABLE LIMITS

Not available.

HAZARDOUS THERMAL DECOMPOSITION AND COMBUSTION PRODUCTS

-In case of fire toxic fumes will be formed, as smoke, carbon monoxide, carbon dioxide,

and other products of combustion.

EXTINGUISHING MEDIA

- -Suitable: Powder, carbon dioxide, dry chemical, watermist(only large amounts).
- -Not to be used: Not applicable.

PROTECTION OF FIREFIGHTERS

-Wear full protective clothing and use self-contained breathing apparatus.

6.ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Avoid contact with skin and eyes. Avoid skin contact with molten resins. Avoid inhalation of dusts. Avoid inhalation of fumes from molten product.

ENVIRONMENTAL PRECAUTIONS:

Keep away from drains, surface-water, ground-water and soil

METHODS FOR CLEANING UP:

Wear appropriate protective equipment and clothing during clean-up. Avoid generation of dust during clean-up. Wear an approved respirator if dust is generated above exposure limits. Attempt to reclaim free product, if this is possible. Shovel material into appropriate container for disposal. Follow all Local, State, Federal and Provincial regulations for disposal.

7.HANDLING & STORAGE

HANDLING

Keep away from sources of ignition-No smoking.Do not breathe dust. Avoid contact with eyes.Take precautionary measures against static discharges.Avoid dust formation.Risk for dust explosion.On heating,this product may generate fumes that irritate the eye and may cause respiratory irritation with throat discomfort, coughing, or difficulty breathing.

STORAGE

Keep in a cool, well-ventilated room. Store at ambient temperature and atmospheric pressure.

Avoid dust formation. Risk for dust explosion.

8.EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face:

Wear chemical goggles and face shield if handling molten material.

Skin and body protection:

Use impervious gloves and suitable protective clothing to prevent all skin contact should be worn, such as coveralls and long sleeves.

Respiratory:

Suitable respiratory equipment in case of insufficient ventilation. Filter type:P2

Observe exposure limits for Particulates (NOC):

ACGIH TLV TWA: 10 mg/m³ Total dust; **ACGIH TLV TWA:** 3 mg/m³ Respirable dust; **OSHA PEL TWA:** 15 mg/m³ Total dust; **OSHA PEL TWA:** 5 mg/m³ Respirable dust.

9.PHYSICAL & CHEMICAL PROPERTIES

Physical appearance Solid
Odor Slight
Color yellow.

Molecular Weight

Specific Gravity (25°C)

Boiling Point

PH

Not applicable

Vapor Density

Percent Volatile (EPA Method 24)

Solubility in Water

Not available

Negligible

Insoluble

Density (vs. water) >1

Flash Point CLOSED CUP: >100°C.

R/B Softening Point $100\pm3~^{\circ}$ C Acid No. (per ASTM D-465) 25Max.

10.STABILITY & REACTIVITY

CONDITIONS TO AVOID

Excessive heating when Storage.

Avoid strong oxidizing agents. Avoid dispersion of dust in air. Avoid ignition sources where dust is produced.

MATERIALS TO AVOID

Strong oxidizing agents, dispersion of dust in air. ignition sources where dust is produced.

HAZARDOUS DECOMPOSITION PRODUCTS

Smoke, carbon monoxide, carbon dioxide, and other products of combustion.

11.TOXICOLOGICAL INFORMATION

TOXICITY TO ANIMALS

Rosin Ester:

ORAL, rat, LD50 = > 5000 to > 10000 mg/kg;

DERMAL, rabbit, LD50 = > 2000 mg/kg;

This product was found to produce mild eye and skin irritation in rabbits. Product was not found to be a skin sensitizer in guinea pigs. Product was non-mutagenic in the Ames Salmonella Assay.

TOXICITY TO HUMANS

Contact may cause skin or eye irritation. Ingestion may cause nausea, vomiting, and diarrhea. Inhalation of dust may cause respiratory irritation.

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

CARCINOGENIC EFFECTS: None of this product's components are listed as carcinogens by ACGIH, IARC, NIOSH, NTP or OSHA. **MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available. No information available on the toxicity of this product to the reproductive system.

12.ECOLOGICAL INFORMATION

MOBILITY:

Not known.

PERSISTENCE AND DEGRADABILITY:

Not known

BIOACCUMULATION:

Not known

ECOTOXICITY

This product is biodegradable under aerobic and anaerobic conditions.

13.DISPOSAL CONSIDERATIONS

METHODS OF DISPOSAL

Controlled incineration. Care should in any case be taken to ensure compliance with EC, national and local regulations. Take local authorities advice with handling of waste.

14.TRANSPORT INFORMATION

Classification

Not Classification

15.REGULATORY INFORMATION

FEDERAL REGULATIONS

OSHA: Not hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

SARA TITLE III:

SARA Section 302 (40 CFR 355 Appendix A): **None of this product's components are listed**:

SARA Section 311/312: None:

SARA Section 313 (40 CFR 372.65): **None of this product's components are listed**; CERCLA (40 CFR 302.4): **None of this product's components are listed**.

TSCA Inventory: All of this product's components are listed.

International Inventories: All of this product's components are on or exempt from these inventories: EINECS, DSL, Japan, Korea, Australia, China and the Philippines.

US lists: None of this product's components are listed in CA, FL, MA, MN, NJ, or PA.

16.OTHER INFORMATION

KEY TO ABBREVIATIONS AND ACRONYMS

ACGIH = American Conference of Governmental Industrial Hygienists.

ANSI = American National Standards Institute.

ASTM = American Society for Testing and Materials.

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act.

DOT = Department of Transportation.

EPA = Environmental Protection Agency.

IARC = International Agency for Research on Cancer.

LD = Lethal Dose.

NIOSH = National Institute of Occupational Health and Safety.

NTP = National Toxicology Program.

OSHA = Occupational Safety and Health Administration.

PEL = Permissible Exposure Limit.

SARA = Superfund Amendments and Reauthorization Act.

TLV = Threshold Limit Value.

TSCA = Toxic Substance Control Act.

DSICLAIMER

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.