

Safety Data Sheet: Phenolic Resin RT1101

1. Identification

Product	Phenolic Resin RT1101; CAS 9003-35-4; EC 500-005-2 (resin family)
Use	Professional rubber-compounding and industrial tackifier formulation development.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Phenolic Resin RT1101. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Not classified as a hazardous substance or mixture in the selected reference.
Signal word / symbols	No signal word assigned; No GHS pictogram in the selected reference
Hazard statements	No classified GHS hazard statements assigned in the selected solid alkylphenolic tackifier reference. Airborne organic dust can form combustible mixtures; hot resin can cause thermal burns.
Prevention	Provide local exhaust at dust-generating points and control static and ignition sources. Wear gloves, goggles and suitable protective clothing. Avoid resin dust and contact with hot molten resin; select respiratory protection through the workplace assessment.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.

3. Composition / Information on Ingredients

Reference ingredient	Solid thermoplastic alkylphenolic polymer. CAS 9003-35-4 and EC 500-005-2 identify the phenolic-resin family. The selected tackifier reference does not quantify the polymer distribution or establish supplied-batch residual phenol or formaldehyde fractions.
Supply grade	RT1101; softening point 92–102°C
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to mist.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice.
Effects / treatment	No specific acute effect is assigned by the selected solid reference. Dust can create mechanical exposure and hot molten resin can cause thermal burns. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use water fog, dry chemical, foam or carbon dioxide suited to the incident. Avoid a high-volume water jet. Firefighters require self-contained breathing apparatus and protective clothing.
Hazards	Stable under recommended conditions. Thermal decomposition or fire can release carbon monoxide, carbon dioxide and hydrocarbons.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personnel	Isolate the spill and provide ventilation. Use chemical-resistant gloves and eye protection; avoid contact and mist exposure.
Environment	Contain the release and protect drains and waterways. Report significant environmental contamination to the responsible authority.
Cleanup	Stop the leak if safe. Absorb liquid with a compatible inert material and collect in closed labelled containers. Do not wash into drains.

7. Handling and Storage

Handling	Provide local exhaust at dust-generating points and control static and ignition sources. Wear gloves, goggles and suitable protective clothing. Avoid resin dust and contact with hot molten resin; select respiratory protection through the workplace assessment.
Storage	Keep lined bags closed in a cool, dry, well-ventilated warehouse. Protect from moisture, direct sunlight and heat; segregate from strong oxidizers, acids and bases.
Incompatibilities	Strong oxidizing agents, strong acids and strong bases; excessive heat and ignition sources.

8. Exposure Controls / Personal Protection

Exposure limits	No resin-specific occupational exposure limit is established by the selected reference. Reference general particulate limits include OSHA 15 mg/m ³ total and 5 mg/m ³ respirable dust; apply local workplace requirements.
Engineering controls	Use local extraction where mist can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	Light-yellow to yellow pastilles
Formula / molecular weight	Polymeric alkylphenolic resin / Polymer distribution
Physical state	Light-yellow to yellow solid pastilles
Softening point, supply TDS	92–102°C
Density, selected reference	Approximately 1.02 g/cm ³
Water solubility	Insoluble
Recommended addition, supply TDS	4–8 phr
Other properties	Product-specific values for odor threshold, vapor pressure, partition coefficient, autoignition temperature and viscosity are not supplied by the selected reference set. No values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Strong oxidizing agents, strong acids and strong bases; excessive heat and ignition sources.
Decomposition	Stable under recommended conditions. Thermal decomposition or fire can release carbon monoxide, carbon dioxide and hydrocarbons.

11. Toxicological Information

Exposure effects	No specific acute effect is assigned by the selected solid reference. Dust can create mechanical exposure and hot molten resin can cause thermal burns.
Reference classification	Not classified as a hazardous substance or mixture in the selected reference.
Data limits	Reference oral rat LD50 >5,000 mg/kg. The selected tackifier reference reports no skin or eye irritation, a negative sensitization result and a negative bacterial mutagenicity result. These results do not establish the composition or performance of an actual supplied lot.

12. Ecological Information

Environmental effects	Selected reference fish LC50 >100 mg/L over 96 hours, Daphnia EC50 >100 mg/L over 48 hours and algae EC50 >100 mg/L over 72 hours. No effects were seen at the maximum soluble concentration. Biodegradation, bioaccumulation and soil-mobility endpoints are not established; prevent environmental discharge.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Non-dangerous goods
UN number	Not assigned
Shipping name	Not regulated as dangerous goods
Class / packing group	IATA / IMDG / 49 CFR: non-dangerous goods for the selected solid alkylphenolic tackifier reference; no UN number or packing group assigned.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Phenolic Resin RT1101; CAS 9003-35-4; EC 500-005-2 (resin family)
HS reference	390940; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish authorization for a finished formulation.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	No classified GHS hazard statements assigned in the selected solid alkylphenolic tackifier reference. Airborne organic dust can form combustible mixtures; hot resin can cause thermal burns.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.1; prepared 2026-10-07. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

Revision: 2026.1 | Revision date: 2026-10-07