

SAFETY DATA SHEET



1. Product and Company Identification

Product Name: Reynco 53-027W Adhesive

The Reynolds Company
10 Gates Street
Greenville, SC 29611
(864) 232-6791

Emergency Phone Number (24 hours/day)
Chemtrec: 800-424-9300

For additional health, safety, or regulatory information,
call 864-232-6791 during business hours.

Product Use: Adhesive for packaging and light product assembly
Not recommended for: structural applications.

2. Hazards Identification

GHS Ratings:

There are no GHS ratings that apply to this product at this time

GHS Hazards

There are no GHS hazards that apply to this product at this time

GHS Precautions

- | | |
|-----------|---|
| P103 | Read label before use |
| P281 | Use personal protective equipment as required |
| P302 | IF MOLTEN MATERIAL ON SKIN: Immediately immerse in or flush with large amounts of cool water to dissipate heat. Do not try to remove adhesive. Cover with clean cotton and get prompt medical attention |
| P304+P341 | IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P308+P313 | IF exposed or concerned: Get medical advice/attention |

3. Composition Information on Ingredients

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

Chemical Name	CAS number	Weight Concentration %
Resin acids and rosin acids, esters with pentaerythritol	8050-26-8	
Titanium oxide	13463-67-7	

4. First Aid Measures

Inhalation: Not likely. Move victim to fresh air if needed.

Eye Contact: For material in supplied state - immediately flush eyes with plenty of water for at least 15 minutes- occasionally lift eyelids. Call a physician if irritation persists.

Skin Contact: For contact with material as supplied- wash with soap and water. For molten adhesive- immediately immerse in or flush with large amounts of cold water to dissipate heat. Cover with clean cotton and get prompt medical attention.

Ingestion: Not likely in normal use. If swallowed, do not induce vomiting. Give 2 glasses of water (16oz.) and contact a physician.

Notes to Physician: Product in original form should pose no hazard. Material is heated to apply. Molten material may cause burns.

5. Firefighting Measures

Flash Point: Not determined

LEL: N/A

UEL: N/A

Flammable Limits: Not established

Extinguishing Media: Water spray of fog, CO₂, or dry chemical. Use care not to splash adhesive.

Unusual Fire and Explosion Hazards: Material will burn in a fire.

Hazardous Combustion Products: None hazardous. Carbon dioxide, carbon monoxide and various hydrocarbons.

Firefighting: Wear self-contained breathing apparatus.

Fire Equipment: Wear self-contained breathing apparatus. Keep containers cool to prevent rupture.

6. Accidental Release Procedures

Spillage: Ensure that all clean-up personnel wear all appropriate protective equipment. Do not allow material to get into sewer or waterway. Material in pellet form can present a slip hazard.

Small Spills: Sweep or vacuum materials. Dispose in trash. Material in pellet form can present a slip hazard.

Large Spills: Sweep or vacuum materials. Dispose of as non hazardous waste. Material in pellet form can present a slip hazard.

7. Handling and Storage

Handling: Routine housekeeping should be in place to assure that material does not accumulate on surfaces.

Clean up small spills.

Storage Requirements: Normal storage temperatures in a dry warehouse.

Regulatory Requirements: During melt processing air removal or air flow may be necessary.

8. Exposure Control and Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Resin acids and rosin acids, esters with pentaerythritol 8050-26-8	Not Established	Not Established	Not Established
Titanium oxide 13463-67-7	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	NIOSH: 2.4 mg/m ³ TWA (CIB 63, fine); 0.3 mg/m ³ TWA (CIB 63, ultrafine, including engineered nanoscale)

Engineering Controls: Ventilation should be sufficient to control airborne levels/fumes.

Ventilation: Use in a properly ventilated area.

Administrative Controls: Use good personal hygiene when handling this product. Wash hands after use, before smoking, eating, or using the toilet.

Protective Gear: Wear safety glasses near extrusion and fill points. Wear heat resistant gloves when working near molten material.

Contaminated Gear: Use care if molten material is on gear. Do not try to remove until it has cooled.

9. Physical and Chemical Properties

Properties are supplied for safety, health and environmental considerations and may not fully represent product specifications.

Density: 0.97	Mettler: 185°F
Freezing point: Not applicable	Solubility: Insoluble in water
Boiling range: Not determined	Flash point: Not determined
Odor threshold: Not determined	Vapor Density: Nil
pH: Not applicable	Evaporation rate: Not determined
Flammability: Not determined	Explosive Limits: Not determined
Partition coefficient (n-octanol/water): Not determined	Autoignition temperature: Not determined
Decomposition temperature: Not determined	Viscosity: 3500 - 4500 cps@350°F
VOC: Not determined	Appearance: Off white solid
Odor: Resinous	Vapor Pressure: Not determined

10. Stability and Reactivity

Stability:

STABLE

Incompatible Materials:

Hazardous Decomposition Products:

Hazardous polymerization will not occur.

11. Toxicological Information

Mixture Toxicity

Component Toxicity

8050-26-8

Resin acids and rosin acids, esters with pentaerythritol
Oral LD50: 2,000 mg/kg (Rat)

Toxicity: Information appears only if there are issues that need to be considered.

Routes of Entry: Material in furnished state does not pose any hazards.

Target Organs: Exposure to this material may affect the following organs:

Skin: Contact with molten material can cause burns.

Eyes: Vapors from molten product might cause eye irritation.

Respiratory System: Vapors from molten product might cause nose irritation.

Respiratory System

Effects of Overexposure

Carcinogenicity: None

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
13463-67-7	Titanium oxide		Titanium oxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

Acute Toxicity: None

Conditions Aggravated: Hot fumes may cause eye, skin or respiratory irritations

Chronic Effects: None known.

12. Ecological Information

Ecological: Any information available follows.

Component Ecotoxicity

13. Disposal Considerations

Disposal: Reclaim if feasible. If disposal is required, dispose of material and waste in a sanitary landfill or incinerate in an industrial, commercial, or municipal incinerator.

14. Transport Information

Transportation Instructions: The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Not regulated			
IATA	Not regulated			

15. Regulatory Information

The following information is provided based upon the best information at our disposal.

This product does not contain any materials subject to California Proposition 65.

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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EU Risk Phrases

R33: Danger of cumulative effects

Safety Phrase

S36: Wear suitable protective clothing

All components of this product are on the TSCA Inventory or are exempt from TSCA requirements.

This product is not considered hazardous according to regulatory guide lines.

SARA Title III.

Product Classification under SARA 311: Acute (no), Fire (no), Reactive (no), Pressure (no).

Product Classification under SARA 355: This product contains no extremely hazardous substances.

16. Other Information

For any valid claim presented under the limited warranty, Reynolds will replace the product, or, at its option, refund the purchase price. This replacement/refund resolution is the purchaser's sole and exclusive remedy against Reynolds. The purchaser agrees that no other resolution (including but not limited to lost profits, lost sales, injury to person or property or any other incidental or consequential loss) shall be available to purchaser for claims arising out of any use of the product regardless of the legal theory (contract, tort or other). In no event will Reynolds be obligated to pay damages to purchaser in any amount exceeding the price that the purchaser paid for the product.

The Reynolds Company ("Reynolds") warrants that our products are manufactured in accordance with Reynolds' specifications in effect on the date of manufacture. These specifications are available upon request. This Warranty does not cover test data, or any defects, damages or other harms caused to any extent or in any way by failure to follow applicable Reynolds instructions, if any, or abuse /misuse of the product.

Any claim made or action commenced by purchaser/end user under Reynolds' limited warranty as set forth herein must be brought within one year from date of shipment from Reynolds to the purchaser. Purchaser agrees that all disputes arising from Reynolds' sale of product to purchaser shall be brought, if at all, in and before a court located in the state of South Carolina, to the exclusion of the courts of any other state.

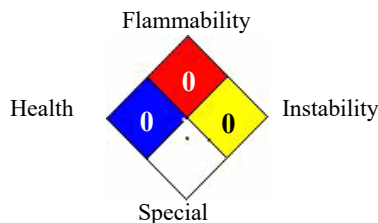
Hazardous Material Information System (HMIS)

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

HMIS & NFPA Hazard Rating Legend

- * = Chronic Health Hazard
- 0 = INSIGNIFICANT
- 1 = SLIGHT
- 2 = MODERATE
- 3 = HIGH

National Fire Protection Association (NFPA)



DISCLAIMER - The warranty, as stated above, supersedes all other warranties, express or implied. The Reynolds Company expressly disclaims any other warranties, including warranties of merchantability and fitness for a particular purpose. Reynolds Company's acceptance of purchaser's order for this product is expressly conditional on purchaser's assent to terms and conditions set forth herein. Regardless of whether The Reynolds Company suggested the product or developed the product at the purchaser's request, it is the purchaser's responsibility to test and determine the suitability of the product for the purchaser's intended use and purpose, and purchaser assumes all risk and liability whatsoever.

We believe the information included on this Material Safety Data Sheet to be correct, to the best of our knowledge. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that tests be made in a laboratory or plant to determine if this product meets all of your requirements. It is the responsibility of the buyer/user to determine the suitability of this product for his/her application/requirements.

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Reviewer Revision 1

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