



Resigum SH-85

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 04/02/2015

Version: 1.0

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

1.1. Product identifier

Trade name : Resigum SH-85

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

Use of the substance/mixture : In hot-melt pressure sensitive adhesives and in adhesives for lamination of metal foil paper, cloth, cellophane and cellulose acetate films.

Use of the substance/mixture : Product for industrial use only

1.3. Details of the supplier of the safety data sheet

T&R Chemicals. Inc.

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Clint, Texas 74836 USA

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1.4. Emergency telephone number

800-424-9300

Emergency telephone number: For emergency health, safety and environmental information:

Emergency Phone: (RSSA) +52 (443) 316.14.15
915.851.27.61 In the United States and Canada

For emergency transportation information:

+52 (443) 3.16.14.15 in Mexico
915.851.27.61 In the United States and Canada

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Comb. Dust H232

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H232 - May form combustible dust concentrations in air

Precautionary statements (GHS-US) : P210 - Keep away from heat, sparks, hot surfaces, open flames, No smoking. - No smoking

P243 - Take precautionary measures against static discharge

P261 - Avoid breathing dust, fume, mist, spray, vapours, gas

2.3. Other hazards

other hazards which do not result in classification : May form combustible dust concentrations in air. Static charges generated by emptying package in or near flammable vapors may cause flash fire may form flammable dust air mixtures.

Resigum SH-85

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%	GHS-US classification
Hydrogenated Gum Rosin Glycerol Ester	(CAS No) 65997-13-9	100	Not classified

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Do not rub the skin and eyes after direct contact with the product. If skin irritation occurs: Get medical advice/attention. Risk of thermal burns on contact with molten product. After contact with the molten product, cool rapidly with cold water. Do not attempt to remove the molten material from the skin. Burns caused by molten material must be treated clinically. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Do not rub the skin and eyes after direct contact with the product. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists. Vapors from molten resin may cause irritation and tearing.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting unless directed to do so by medical personnel. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries	: The fine particles and powder should be regarded as an inert, nuisance dust. Risk of thermal burns on contact with molten product. Hot molten material can cause irreversible eye injury and burns. Contact with SOLID material may cause irritation with temporary redness with stinging and tears. Inhalation of hot mist may cause respiratory irritation. Molten material will produce burns to the gastrointestinal tract.
Symptoms/injuries after inhalation	: If user operations generate dust or fumes, . Overexposure may cause : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: Prolonged or repeated contact with the skin may cause dermatitis. Risk of thermal burns on contact with molten product.
Symptoms/injuries after eye contact	: Dusts are mechanical irritants. Product fines may cause mechanical irritation. Risk of thermal burns on contact with molten product. Vapors from molten resin may cause irritation and tearing.

4.3. Indication of any immediate medical attention and special treatment needed

No specific antidote. Supportive care. Treatment based on judgment of the physician in response to patient's reaction. This product contains rosin or rosin derivatives. Rosin and some of its derivatives have been reported to cause an allergic skin reaction (sensitization) in susceptible individuals after repeated or prolonged skin contact. Smoke or fumes generated by heating product may lead to respiratory sensitization (asthma) in susceptible individuals. For hot molten or hot liquid product material should not be forcibly pulled from the skin. Mineral oil may be used to loosen and soften the material.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Explosion hazard	: Dust may form explosive mixture in air. Accumulation of airborne dusts may present an explosion hazard in the presence of an ignition source.
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Resigum SH-85

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Avoid generation of dust. Apply extinguishing media carefully to avoid creating airborne dust. Fight fire from safe distance and protected location.
- Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Avoid raising powdered materials into airborne dust. Avoid dust clouds in combination with static electricity. Material may accumulate a static charge which could act as an ignition source. Dust may form flammable and explosive mixture with air.
- Molten material can form flaming droplets if ignited. Exposure to fire may cause containers to rupture/explode. Cool closed containers exposed to fire with water spray.
- Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Fume. Aldehydes. Carboxylic acids.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure electrical continuity by bonding and grounding all equipment. Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. For HOT MOLTEN or HOT LIQUID product: Wear protective equipment as required. Contain spilled material and allow it to cool and solidify. DO NOT apply water. After solidification, clean up and place in suitable containers for use or disposal. For SOLID product: Ventilate area. Avoid dust formation. If product is not contaminated, scoop into clean containers for use. If product is contaminated, scoop into containers, and dispose appropriately. Consult the appropriate authorities about waste disposal. Ensure all national/local regulations are observed.
- Take precautionary measures against static discharge. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Use only non-sparking tools.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Minimize generation of dust. May form combustible dust concentrations in air.
- Precautions for safe handling : Warning: May Form Combustible (Explosive) Dust - Air Mixtures. Prevent dust accumulations to minimize explosion hazard. Read label before use. Use personal protective equipment as required. Obtain special instructions before use. Ensure adequate ventilation. For SOLID product: Ground all equipment. Blanket vessel with inert gas when empty bags where flammable vapors may be present. Ground operator and pour material slowly into conductive grounded chute. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing mist or vapor. avoid breathing dust. Avoid contact with skin, eyes and clothing. Keep away from sources of ignition - No smoking. Avoid ignition sources such as sparks and flame, in addition, when emptying bags where flammable vapors may be present, blanket vessel with inert gas assure proper grounding (NFPA 69 – Explosion Prevention Systems NFPA 70 – National Electric code NFPA 77 Recommended practices on Static Electricity, NFPA 654 – Standard for the prevention of fire or dust explosions in the chemical, Dye, Pharmaceutical and plastics industry), and pour material slowly into conductive grounded chutes. Do not chisel drums in areas where flammable liquids are stored or used. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Resigum SH-85

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

- Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practices.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed. Keep away from food and drink. Pastille forms are prone to gradual oxidation. Suggest stainless steel construction for bulk storage. Control inventory: Use oldest material first. Rotate stock periodically.
- Incompatible materials : Strong acids, bases. Oxidizing agents.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Provide local exhaust or general room ventilation to minimize exposure to dust. Ensure adequate ventilation. Use explosion-proof equipment. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.
- Personal protective equipment : Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. For certain operations, additional Personal Protection Equipment (PPE) may be required.



- Hand protection : Wear protective gloves. Long-cuff gloves (Gauntlet type-extending beyond the wrist). For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Eye protection : Chemical goggles and/or face shields are required to prevent potential eye contact, irritation or injury.
- Skin and body protection : Long sleeved protective clothing. Use protective coverall. Wear rubber boots.
- Respiratory protection : Wear respiratory protection. A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.
- Thermal hazard protection : Protective non-flammable clothing. When handling molten material, thermally-protective long sleeved clothing, boots and gloves should be worn. Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).
- Environmental exposure controls : Avoid discharge to the environment.
- Other information : Do not eat, drink or smoke during use.

Resigum SH-85

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Pastilles.
Colour	: Pale
Odour	: Odorless
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: < 1
Melting point	: 75 °C Softening point
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °C (>392 °F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.06 ± 1 Specific Gravity
Solubility	: Water: Negligible.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under recommended condition.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur under normal temperatures and pressures.

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

Strong acids, bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Fume. Aldehydes. Carboxylic acids.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified

Resigum SH-85

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: If user operations generate dust or fumes, . Overexposure may cause : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: Prolonged or repeated contact with the skin may cause dermatitis. Risk of thermal burns on contact with molten product.
Symptoms/injuries after eye contact	: Dusts are mechanical irritants. Product fines may cause mechanical irritation. Risk of thermal burns on contact with molten product. Vapors from molten resin may cause irritation and tearing.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Resigum SH-85	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Resigum SH-85	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No additional information available
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulations. SOLID and HOT MELT product that has been cooled and solidified Landfilling in a permitted solid or hazardous waste facility is recommended. Consult the appropriate local waste disposal expert about waste disposal. Do not pressurize, cut, weld, braze solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Incineration. Ensure all national/local regulations are observed. Avoid raising powdered materials into airborne dust.
Additional information	: Do not re-use empty containers. Prevent contamination of soil, drains and surface waters.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT
Not regulated for transport

Additional information

Other information	: No supplementary information available.
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Resigum SH-85

Safety Data Sheet

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ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Hydrogenated Gum Rosin Glycerol Ester (65997-13-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Hydrogenated Gum Rosin Glycerol Ester (65997-13-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Hydrogenated Gum Rosin Glycerol Ester (65997-13-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

15.2.2. National regulations

Hydrogenated Gum Rosin Glycerol Ester (65997-13-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

Comb. Dust	Combustible Dust
H232	May form combustible dust concentrations in air

SDS US (GHS HazCom 2012)

We cannot anticipate all conditions under which this information and our products, or the products of other manufacture in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purpose. Unless otherwise agreed in written. We sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.