

TECKROS R98

SAFETY DATA SHEET

1. Identification

Product Identifier/Code Teckros R98, Gum Rosin Ester

Recommended use Adhesives, Sealants, Coatings, Wax, and other formulations

Recommended restrictionsNone known **Manufacturer**Teckrez, Inc.

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2. Hazards Identification

Label elements

Physical hazards Not classified; molten material will cause thermal burns.

Health hazards Serious eye damage/eye irritation. Category 2B

Sensitization, skin. Category 1B

OSHA defined hazards Combustible dust

(!)

Signal word Warning

Hazard statement May cause an allergic skin reaction and eye irritation.

May form combustible dust concentrations in air.

Precautionary statement Practice good industrial hygiene. Store in protective environment, away from incompatible

materials and elevated temperature equipment. Wash hands and other exposed areas after

handling. Waste disposal in accordance with local requirements.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazards not otherwise

None known

classified (HNOC)

3. Composition/Information on Ingredients

Chemical Name	CAS number	%
Modified Ester of Rosin	Proprietary	>99.8%
Antioxidant	Proprietary	0.1-0.2%

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First-aid Measures

Inhalation Move exposed person to fresh air. Keep person

warm and at rest. Get medical attention if symptoms persist.

Skin contact Flush contaminated skin with soap and water. Remove contaminated clothing

and shoes. Cool as quickly as possible if exposed to molten material. Do not attempt to

remove adhered material from skin; material will come off as healing occurs.

Get medical attention if symptoms occur.

Eye contact Immediately flush eyes with water for at least 15 minutes, occasionally lifting

the upper and lower eyelids. Check for and remove any contact lenses if easy to do.

Get medical attention if irritation occurs and persists.

Seek medical attention. Ingestion

Most important symptoms/ effects, acute and delayed Indication of immediate medical attention and

special treatment needed

Dust may irritate intestinal track.

Burns should be treated as thermal burns; material will come off as healing occurs.

5. Fire-fighting Measures

Suitable extinguishing

media

Unsuitable extinguishing

media

Specific hazards arising

from the chemical

Specific protective equipment and precautions

Specific methods

Water spray, dry chemical, carbon dioxide

Avoid high pressure extinguisher application which could spread fire.

Powdered material may cause explosive dust-air combinations, particularly in presence of static electricity. Hazardous decomposition products in the case of a fire includes:

CO₂, carbon monoxide, smoke.

Appropriate protective clothing and self- contained breathing apparatus (SCBA)

with a full-face piece operated in positive pressure mode.

Use standard firefighting procedures and consider hazards of other materials.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Methods and materials for

containment and cleaning up **Environmental precautions**

Use suitable protective equipment. Keep unnecessary personnel away from material.

Vacuum or carefully contain and collect material and place in an appropriate container for

Keep from drains; prevent uncontrolled run-offs.

7. Handling and Storage

Precautions for safe handling Conditions for safe storage, including any incompatibilities Wash thoroughly after handling. Prevent contact with molten material.

disposal. Avoid creating dusty conditions and prevent wind dispersal.

Keep container tightly closed in a cool, well-ventilated area. Keep away from ignition sources and static electricity. Employ good housekeeping practices to prevent build-up of dust and residue.

8. Exposure Controls/Personal

8.1 Occupational exposure limits

USA ACGIH	ACGIH (mg/m³)	10 mg/m³ (inhalable dust)
USA ACGIH	Remark (ACGIH)	Particulates, not otherwise classified

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USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable dust)
USA OSHA	Remark (US OSHA)	Particulates, not otherwise classified

8.2 Exposure controls

Appropriate engineering

Ensure good ventilation of the work station. Consider explosion proof ventilation equipment.

controls

Hand protectionProtective chemical resistant glovesEye protectionSafety glasses with side shields (or goggles)

Skin and body protection Wear suitable protective clothing, including appropriate clothing for exposure to molten

material.

Respiratory protection Where exposure through inhalation may occur from use, respiratory protection

equipment of approved standard is recommended. Wear appropriate respiratory protection,

if occupational exposure limits are exceeded or irritation/sensitivity is experienced.

9. Physical and Chemical Properties

Appearance

Flash point

Physical state

Form

Solid

Color

Pale yellow

Odor

Bland (slight rosin)

PH

Not available

Melting point

96-104°C

Initial boiling point

Solid

Pale yellow

Pale yellow

Pot available

Not available

96-104°C

Evaporation rate Not determined; considered negligible

Auto ignition temperature >260°C

Flammability (solid, gas) Not determined

Decomposition temperature Not established. Very low hazard expected at normal operating conditions.

Density 1.08 g/cm₃ (8.549 lb(s)/gal)

Solubility Insoluble in water. Good solubility in aliphatic and aromatic hydrocarbons. Minimal solubility

in alcohols.

Closed cup 260°C

Viscosity 400 cps @ 177°C

10. Stability and Reactivity

Reactivity and Non-reactive and stable under normal operating conditions. Decomposition can occur at

chemical stability elevated temperatures.

Possibility of hazardousNone known under normal operating conditions.

reactions

Conditions to avoid Open flame, static electricity, dusty conditions

Incompatible materials Strong oxidizing agents

Hazardous decomposition Smoke, carbon dioxide, carbon monoxide

products

11. Toxicology Information

Information on likely routes of exposure

Inhalation Dust and vapor. Fumes may irritate respiratory system.

Skin Contact May cause allergic skin reaction. Molten material causes thermal burns.

Eye Contact Causes eye irritation.

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Modified Rosin Ester Irritation Corrosion-Eye: data is for similar product; Result: Positive; Species: NZ white rabbit;

Organ: Eye; Test duration: 4 hr; Observation period: 72 hr; Notes: OECD 405

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical, and toxicological characteristics

Dusts may irritate the respiratory tract, skin, and eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause allergic skin reaction and dermatitis.

Information on toxicological effects

Acute toxicity May cause an allergic skin reaction.

Components	Species	Test Results
Modified Rosin Ester		
Acute Oral LD50	Rat	>5,000 mg/kg; data is for similar product. >2,000 mg/kg; at this dose no death occurred; data is for similar product.
Acute NOAEL	Wistar rat	300 mg/kg/day; 8 wks developmental; data is for similar product.
Acute NOEL	Wistar rat	1,000 mg/kg/day; 8 wks reproductive; data is for similar product.
*Estimates for product may be based on additional component data not shown.		

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Corrosivity (mod. rosin ester) Irritation Corrosion-Skin: No skin irritation; data is for similar product; Result: negative;

Species: NZ white rabbit; Organ: Skin; Test Duration: 4 hr; Observation Period: 72 hr; Notes:

OECD 404

Serious eye damage/irritation

Causes eye irritation.

Eye contact (mod. rosin ester) Irritation Corrosion-Eye: data is for similar product; Result: positive; Species: NZ white rabbit;

Organ: Eye; Test Duration: 4 hr; Observation Period: 72 hr; Notes: OECD 405

Respiratory or skin sensitization

Respiratory sensitization

Not available

Skin sensitization May cause an allergic skin reaction.

Skin sensitization (mod. RE) 50% w/Local Lymph Node Assay: Lowest concentration producing reaction; SI=5; may cause

sensitization by skin contact. Result: positive; Species: Mouse; Notes: OECD 429

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity (mod. RE) Germ Cell Mutagenicity: Ames, data is for similar product; Result: negative; Species:

Salmonella typhimurium; Notes: OECD 471

Germ Cell Mutagenicity: Chromosome Aberration, data is for similar product; Result:

negative; Species: Human; Notes: OECD 473

In-vitro Mammalian Cell Gene Mutation test, no data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic; data is for similar

product; Result: negative; Species: Mouse; Notes: OECD 476

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.

Not listed.

1001-1050)

Reproductive toxicity Specific target organ This product is not expected to cause reproductive or developmental effects.

Not classified

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toxicity-single exposure

Specific target organ Not classified

toxicity-repeated exposure

Aspiration hazard Not available

12. Ecological Information

Ecological impact statement May cause harmful effects to aquatic life. Not readily biodegradable. No other adverse

environmental effects are expected.

13. Disposal Considerations

Disposal instructionsDisposal of this product, solutions and any by-products should at all times comply with the

requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

14. Transport Information

DOT Not regulated as dangerous goodsIATA Not regulated as dangerous goodsIMDG Not regulated as dangerous goods

15. Regulatory Information

15.1. US Federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200. All components are on the US EPA TSCA

inventory list. Not regulated

Not listed

Not listed

TSCA Section 12(b) Export

Notification (40 CFR 707,

subpoint D)

CERCLA Hazardous Substance

List (40 CFR 302.4)

OSHA Specially Regulated

Substances

(29 CFR 1010.1001-1050)
Superfund Amendments and
Reauthorization Act 1986 (SARA)

Hazard Categories Immediate Hazard: No; Delayed Hazard: No; Fire Hazard: No; Pressure Hazard: No;

Reactivity Hazard: No

Not regulated

Not regulated

SARA 302 Emergency Hazardous

Substance

SARA 304 Emergency Release

Notification

SARA 311/312 Hazardous

No

Chemical

SARA 313 TRI Reporting Not regulated Clean Air Act (CAA) Section 112 Not regulated

Hazardous Air Pollutants

(HAPs) list

Clean Air Act (CAA) Section 112(r) Not regulated

Accidental Release Prevention

(40 CFR 68.130)

Safe Drinking Water Act (SDWA) Not regulated

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15.2. US State regulations

California Controlled Not listed

Substances, Dept. of Justice (CA Health and Safety Code

Section 11100)

Massachusetts RTK-Substance

List

New Jersey Worker and Not listed

Community RTK Act

Pennsylvania Worker and Not listed

Community RTK Law

Rhode Island RTK Not listed

15.3 International regulations

Canada DSL Yes

16. Other Information, including date of preparation or last revision

Not regulated

NFPA health hazard 2
NFPA fire hazard 1
NFPA reactivity 0

HMIS III Rating

Health 2 Flammability 1 Physical hazard 0

Personal protection See section 8 of SDS

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