TECKROS RL10

SAFETY DATA SHEET

1. Identification

Product Identifier/Code	Teckros RL10, Gum Rosin Ester
Recommended use	Adhesives, Sealants, Coatings, Wax, and other formulations
Recommended restrictions	None known
Manufacturer	Teckrez, Inc.
Company address	4209 Baymeadows Rd, Suite 3 Jacksonville, FL 32217 USA Office: 1-904-215-7885 Emergency: Within USA and Canada: +1 800-424-9300 Outside USA and Canada: +1 703-527-3887

2. Hazards Identification

Physical hazards	Not classified; molten material will cause thermal burns.
Health hazards	Not classified
OSHA defined hazards	Not classified
Label elements	
Hazard Symbol	None
Signal word	None
Hazard statement	None.
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 classified (HNOC)	None known

3. Composition/Information on Ingredients

Chemical Name	CAS number	%
Liquid Rosin Ester	Proprietary	>99.8%
Antioxidant	Proprietary	0.0-0.2%

4. 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.
Ingestion	Seek medical attention.
Most important symptoms/ effects, acute and delayed	
Indication of immediate medical attention and special treatment needed	Burns should be treated as thermal burns; material will come off as healing occurs.

5. Fire-fighting Measures

Suitable extinguishing media	Water spray, dry chemical, carbon dioxide
Unsuitable extinguishing media	Avoid high pressure extinguisher application, including water jet application, which could spread fire.
Specific hazards arising from the chemical	Powdered material may cause explosive dust-air combinations, particularly in presence of static electricity. Hazardous decomposition products in the case of a fire includes: $C0_2$, carbon monoxide, smoke.
Specific protective equipment and precautions	Appropriate protective clothing and self- contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.
Specific methods	Use standard firefighting procedures and consider hazards of other materials.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use suitable protective equipment. Keep unnecessary personnel away from material.
Methods and materials for containment and cleaning up	Vacuum or carefully contain and collect material and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.
Environmental precautions	Keep from drains; prevent uncontrolled run-offs. Never return spilled material to container for re-use

7. Handling and Storage

Precautions for safe handling	Wash thoroughly after handling. Prevent contact with molten material.
Conditions for safe storage, including any incompatibilities	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 (mh/m^3)	10 mg/m^3 (inhalable dust)
USA ACGIH	Remark (ACGIH)	Particulates, not otherwise classified
USA OSHA	OSHA PEL (TWA) (mg/m^3)	15 mg/m^3 (total dust) 5 mg/m^3 (respirable dust)
USA OSHA	Remark (US OSHA)	Particulates, not otherwise classified

8.2 Exposure controls

Appropriate engineering controls	Ensure good ventilation of the work station. Consider explosion proof ventilation equipment.
Hand protection	Protective chemical resistant gloves
Eye protection	Safety 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	
Physical state	Liquid
Form	Liquid
Color	Yellow
Odor	Bland (slight rosin)
pH	Not available
Melting point	5-15°C
Initial boiling point	>150°C
Flash point	Closed cup >200°C
Evaporation rate	Not determined; considered negligible
Auto ignition temperature	Not determined
Flammability (solid, gas)	Not determined
Decomposition temperature	Not established. Very low hazard expected at normal operating conditions.
Density	1.05 g/cm_3 (8.549 lb(s)/gal)
Solubility	Insoluble in water. Good solubility in aliphatic and aromatic hydrocarbons. Minimal solubility in alcohols.
Viscosity	10,000 cps @ 40°C

10. Stability and Reactivity

Reactivity and chemical stability	Non-reactive and stable under normal operating conditions. Decomposition can occur at elevated temperatures.
Possibility of hazardous reactions	None known under normal operating conditions.
Conditions to avoid	Open flame, static electricity, dusty conditions

Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Smoke, carbon dioxide, carbon monoxide

11. Toxicology Information

Information on likely routes of exposure

Inhalation	Fumes may irritate respiratory system.
Skin Contact	Molten material causes thermal burns.
Eye Contact	Direct contact with eyes may cause temporary irritation
Rosin Ester	Irritation Corrosion-Eye: No eye irritation; Result: Negative; Species: NZ white rabbit; Organ: Eye; Test duration: 72 hr; Observation period: 7 days; 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 and eyes.

Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components	Species	Test Results
Rosin Ester (CAS Proprietary)		
Acute Dermal LD50	New Zealand white rabbit	>2,000 mg/kg, 14 days at this dose, no death occurred; OECD 402
Acute Oral LD50	Sprague-Dawley rat	>2,000 mg/kg, 14 days at this dose, no death occurred; OECD 425
*Estimates for product may be based on additional component data not shown.		

Skin corrosion/irritation	Molten material will cause thermal burns.
Corrosivity (rosin ester)	Irritation Corrosion-Skin: No skin irritation; Result: negative; Species: NZ white rabbit; Organ: Skin; Test Duration: 4 hr; Observation Period: 72 hr; Notes: OECD 404
Serious eye damage/irritation	Direct contact with eyes cause temporary irritation.
Eye contact (rosin ester)	Irritation Corrosion-Eye: No eye irritation; Result: negative; Species: NZ white rabbit; Organ: Eye; Test Duration: 72 hr; Observation Period: 7 days; Notes: OECD 405
Respiratory or skin sensitization	
Respiratory sensitization	Not available
Skin sensitization	This product is not expected to cause skin sensitization.
Skin sensitization (rosin ester)	Local Lymph Node Assay: Lowest concentration producing reaction; not a skin sensitizer; Result: negative; Species: Mouse; Organ: Skin; Notes: OECD 429 Maximum Assay (Magnusson and Kligman), not a skin sensitizer; Result: negative; Species: Guinea pig; Organ: Skin; Notes: OECD 406
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Mutagenicity (rosin ester)	Germ Cell Mutagenicity: Ames, no data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic; Result: negative; Species: Salmonella typhimurium; Notes: OECD 471 Germ Cell Mutagenicity: Chromosome Aberration, this material is considered to be non-clastogenic to human lymphocytes in vitro; Result: negative; Species: Human; Notes: OECD 473

	In-vitro gene mutation study in mammalian cells; 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. 1001-1050)	Not listed.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity-single exposure	Not classified
Specific target organ toxicity-repeated exposure	Not classified
Aspiration hazard	Not available
Further Information	
Rosin Ester	Cytotoxicity In-Vitro, not cytotoxic; Result: negative; Species: Human; Organ: Fibroblasts cells; Notes: BS 30993-5 Cytotoxicity In-Vitro, not cytotoxic; Result: negative; Species: Human; Organ: Lung cell tissue; Notes: BS 5736 Cytotoxicity In-Vitro, not cytotoxic; Result: negative; Species: Mouse; Organ: Fibroblasts cells; Test duration: 72 hr; Observation period: 24 hr; Notes: BS 5736

12. Ecological Information

Ecological impact statement	This product is not classified as environmentally hazardous. This does not exclude the possibility that large or frequent spills could be environmentally damaging. This product is not readily biodegradable.

13. Disposal Considerations

Disposal instructions	Disposal 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 goods
IATA	Not regulated as dangerous goods
IMDG	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.
TSCA Section 12(b) Export Notification (40 CFR 707, subpoint D)	Not regulated
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed
OSHA Specially Regulated Substances (29 CFR 1010.1001-1050)	Not listed

Superfund Amendments and Reauthorization Act 1986 (SARA)	
Hazard Categories	Immediate Hazard: No; Delayed Hazard: No; Fire Hazard: No; Pressure Hazard: No; Reactivity Hazard: No
SARA 302 Emergency Hazardous Substance	Not regulated
SARA 304 Emergency Release Notification	Not regulated
SARA 311/312 Hazardous Chemical	No
SARA 313 TRI Reporting	Not regulated
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) list	Not regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated
Safe Drinking Water Act (SDWA)	Not regulated

15.2 International Regulations

Canada DSL	Yes

15.3 US State regulations

California Controlled Substances, Dept. of Justice (CA Health and Safety Code Section 11100)	Not listed
Massachusetts RTK-Substance List	Not regulated
New Jersey Worker and Community RTK Act	Not listed
Pennsylvania Worker and Community RTK Law	Not listed
Rhode Island RTK	Not listed

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

NFPA health hazard	1
NFPA fire hazard	1
NFPA reactivity	0
HMIS III Rating	
Health	1
Flammability	1
Physical hazard	0
Personal protection	See section 8 of SDS

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