TECKROS M105

SAFETY DATA SHEET

DISTRIBUTED BY: R.E. CARROLL, INC.
1570 N. OLDEN AVENUE EXT.
TRENTON N.J. 08638 USA
T: 609-695-6211/800-257-9365 F: 609-695-0102
Orders@RECarroll.com

1. Identification

Product Identifier/Code	Teckros M105, Maleic Modified Gum Rosin Ester
Recommended use	Inks, Coatings, and other formulations
Recommended restrictions	None known
Manufacturer	Teckrez, Inc.
Company address	4217 Baymeadows Rd., Ste. 2 Jacksonville, Fl 32217 USA Office: 1-904-215-7885 Fax: 1-904-215-7797 Emergency: 1-904-881-2205

2. Hazards Identification

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
Label elements	

Signal word	Warning
Hazard statement	May form combustible dust concentrations in air and cause allergic skin reaction and eye irritation.
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	%
Maleic Modified Rosin Ester	Proprietary	>99.8%
Antioxidant	Proprietary	0.1-0.2%

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.
M**ost important symptoms/ effects, acute and delayed**	Dust may irritate intestinal track.
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 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: CO_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.

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	Solid
Form	Solid
Color	Yellow
Odor	Bland (slight rosin)
pH	Not available
Melting point	105°C
Initial boiling point	>260°C (500°F)
Flash point	Closed cup >260°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	1.12 g/cm_3 (8.549 lb(s)/gal)
Solubility	Insoluble in water. Good solubility in aliphatic, aromatic hydrocarbons and alcohols.
Viscosity	**>**10,000 cps @ 125°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	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.
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.
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 mutagenicity No 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. 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

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 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. 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	2
NFPA fire hazard	1
NFPA reactivity	0

HMIS III Rating	
Health	2
Flammability	1
Physical hazard	0
Personal protection	See section 8 of SD
Version	1.0
Date of issue	June 1, 2015

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