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SAFETY DATA Information (203) 573-3303MSDS No. G225002Date Issued: 7/31/85Date Revised: 11/2/92; Supercedes: 7/3/91

R-3

IDENTIFICATION

Trade Name: **CELOGEN® RA**CAS Number: **10396-10-8**Chemical Name: **p-toluene sulfonyl semicarbazide**Chemical Family: **Carbazide**

SPECIAL REGULATORY HAZARDS

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limit</u>	<u>OSHA (1910.1200)</u>	<u>EEC*</u>
Product	10396-10-8	ND	Not hazardous	Not hazardous

Hazard assessment based on available data.

Transportation: **NA**

PHYSICAL DATA

Appearance and Odor: **White powder; characteristic odor**Solubility: **Insoluble in water. Soluble in aqueous bases. DMF & DMSO**Specific Gravity (H₂O = 1): **1.44 @ 25°C**Vapor Pressure @ 20°C: **NA**Melting Point: **Decomposes at 437°F (225°C)**Vapor Density (Air = 1): **NA**Boiling Point: **NA**Volatility @ 70°F: **Low**Other Data: **ND**

FIRE AND EXPLOSION HAZARD DATA

Flash Point: **NA [Decomposes at 437°F (225°C)]**Autoignition Temp: **Bulk quantities may self ignite if heated.**Extinguishing Media: **Water spray, dry chemical**Flammable Limits: **Low**Special Fire Fighting Procedures: **Fires involving this material should only be fought with fixed automatic equipment.**Unusual Hazards: **Fires involving large amounts of material should not be approached because individual containers may rupture abruptly causing "fireball" effect. In case of fire nearby materials, soak containers with water. May form explosive dust-air mixture. DO NOT ATTEMPT MANUAL FIRE FIGHTING.**

REACTIVITY DATA

Stability: **Stable below decomposition temperature. Keep away from heat, sparks and open flame.**Incompatibility: **Strong oxidizing agents.**Decomposition Products: **Major decomposition products are N₂, CO₂ and CO.**

NA = Not Applicable

ND = Not Determined

*European Economic Community

Uniroyal makes no representation or warranty with respect to the information in this Material Safety Data Sheet. The information is however, as of this date provided, true and accurate to the best of Uniroyal's knowledge. This list of information is not intended to be all inclusive. Actual conditions of use and handling may require considerations of information other than, or in addition to, that which is provided herein.

SPECIAL PROTECTION INFORMATION

Engineering Controls: Sufficient ventilation to minimize dust exposure. Protect closed handling systems against possible dust explosions. Avoid dust accumulation on building or equipment surfaces.

Personal Protection Equipment: Avoid all personal contact. Observe good personal hygiene. Chemical resistant gloves and goggles should be worn when handling. In the absence of adequate ventilation, use NIOSH-approved dust cartridge respirator.

1. Limit quantity of product in processing or use area to no more than one container. Reclose container after any transfer operation. 2. Equipment should be designed and used to prevent sparks due to electrical discharges or metal on metal contact. All metal equipment should be effectively grounded. 3. Excessive heat and pressure buildup should be avoided during mixing or processing operations.

STORAGE, SPILLS AND DISPOSAL INFORMATION

Storage: Store in cool, dry place in closed containers. Keep away from heat, sparks and open flame. Separate from combustible storage by 8 ft. aisles or isolate in detached building. Do not store over 4 ft. high unless sprinklers are hydraulically designed to produce a density of 0.5 gpm/sq. ft. over the entire area of the building.

Spills: Vacuum up using an explosion proof or non-sparking vacuum cleaner to avoid creating dust. Transfer into secure containers for proper disposal. Use personal protective equipment as outlined above.

Disposal: In accordance with any applicable local, state or federal regulation regarding disposal of organic waste.

Environmental Information: Environmental effects have not been determined.

HEALTH RELATED DATA

Specific Hazard(s): No health hazards have been identified.

Primary Route(s) of Entry: Inhalation, skin absorption.

First Aid Procedures: **Eye contact:** Flush with water for 15 minutes.

Skin contact: Clean with soap and water.

Inhalation: Remove to fresh air. Get medical attention.

Ingestion: Induce vomiting. Contact physician.

Toxicology Information:

Oral toxicity: LD50 (rats) - >10 g/kg

Irritation: eye (rabbits) - negative

skin (rabbits) - negative

No significant adverse effects have been noted with long-term production and use of this material.

MARKETED BY
**HARWICK STANDARD
DISTRIBUTION CORPORATION**

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Carcinogenic per NTP _____ IARC _____ OSHA _____ None X