

CELOGEN[®] RA

1. PRODUCT AND COMPANY IDENTIFICATION

Product name :	CELOGEN [®] RA	
Chemical name:	p-Toluenesulfonyl semicarbazide	
Use of substance/preparation:	Foaming Agent	
Supplier:	CelChem LLC 6519 Carema Lane Naples, FL 34113-1709	
Emergency telephone number:	INFOTRAC 24 hour numbers:	
	USA & Canada:	1-800-535-5053
	Mexico:	01-800-681-1530
	Outside North America:	+1-352-323-3500 (collect)
Contact:	US 239 228-2285:	
Email:	customerservice@celchemllc.com	

2. HAZARDS IDENTIFICATION

Classification of the substance:

Classification according to Regulation (EC) No. 1272/2008:



GHS07

Acute Tox. 4	H302 Harmful if swallowed.
Acute Tox. 4	H312 Harmful in contact with skin.
Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes Skin irritation.
Eye Irrit. 2A	H319 Causes serious eye irritation.
STOT SE 3	H335 May cause respiratory irritation

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

Information concerning particular hazards for human and environment: Not applicable

Hazards not otherwise classified: No information known

Label Elements

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Labelling according to Regulation (EC) No. 1271/2008. The substance is classified and labeled according to the CLP regulation.

Hazard Pictograms:



GHS07

Signal Word: WARNING

Hazard Statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves / protective clothing / eye protection / face protection
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405 Store locked up.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations

WHMIS Classification

D2B - Toxic material causing other toxic effects



Classification system

HMIS Rating (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 2

Flammability = 1

Physical Hazard = 1

Other Hazards:

Results of PBT and vPvB assessment:

PBT: Not Applicable

vPvB: Not Applicable

CELOGEN[®] RA**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Characterization: Substances
CAS#: 10396-10-8
Description: p-Toluenesulfonyl semicarbazide
Identification number(s):
EC number: 233-857-6

4. FIRST AID MEASURES**After Inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice

After Skin Contact

Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

After Eye Contact

Rinse opened eye for several minutes under running water.
Consult a doctor.

After Swallowing

Seek medical treatment

Information for doctor:

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. FIREFIGHTING MEASURES**Extinguishing media:**

Suitable extinguishing agents: Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture:

If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide

Sulfur oxides (SO_x)

Nitrogen Oxides (NO_x)

Advice for firefighters:

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

CELOGEN[®] RA**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.

Environmental Precautions:

Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.

Prevention of secondary hazards:

No special measures required.

Reference to other sections:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE**Handling:****Precautions for safe handling:**

Keep container tightly sealed.
Ensure good ventilation at the workplace.
Information about protection against explosions and fires: No information known.

Conditions for safe storage, including any incompatibilities:**Storage:**

Requirements to be met by storerooms and receptacles: Store in freezer (-20 degrees C)
Information about storage in one common storage facility:
Protect from heat.
Store away from oxidizing agents.
Further information about storage conditions: Keep container tightly sealed.
Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control Parameters:**Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

No data

CELOGEN[®] RA**Exposure Controls:****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Maintain an ergonomically appropriate working environment.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands:

Impervious gloves

Check protective gloves prior to each use for their proper condition.

The selection of suitable gloves not only depends on the material but also on quality. Quality will vary from manufacturer to the manufacturer.

Penetration time of glove material (in minutes): Not determined.

Eye Protection:

Safety glasses

Body protection:

Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties:****General Information:**

Appearance:

Form	Powder
Color:	White
Odor:	Not determined
Odor threshold:	Not determined
pH-value:	Not applicable.
Change in condition	Not determined
Melting point / range:	Not determined
Boiling point / range:	Not determined
Sublimation temperature / start:	Not determined
Flammability (solid, gaseous):	Not determined
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not determined
Danger of explosion:	Not determined
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not applicable

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Density:	Not determined
Relative density:	Not determined
Vapor density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with water:	Not determined
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not applicable
Kinematic:	Not applicable
Other information:	No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity: No information known.

Chemical stability: Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions: Reacts with strong oxidizing agents

Conditions to avoid: No further relevant information available.

Incompatible materials:

Oxidizing agents

Heat

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Sulfur oxides (SO_x)

Nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Harmful if inhaled.

Harmful in contact with skin.

Harmful if swallowed.

Danger through skin absorption.

LD/LC50 values that are relevant for classification: No data

Skin irritation or corrosion: Causes skin irritation.

Eye irritation or corrosion: Causes serious eye damage.

Sensitization: No sensitizing effects known.

Germ cell mutagenicity: No effects known.

Carcinogenicity: No classification data on carcinogenic properties of this material is available from EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity: No effects known.

Specific target organ system toxicity – repeated exposure: No effects known.

Specific target organ system toxicity – single exposure: May cause respiratory irritation.

Aspiration hazard: No effects known.

Subacute to chronic toxicity: No effects known.

Additional toxicological information: To the best of our knowledge, the acute and chronic toxicity of this substance is not fully known.

CELOGEN[®] RA**12 ECOLOGICAL INFORMATION****Toxicity:****Aquatic toxicity:** No further relevant information available.**Persistence and degradability:** No further relevant information available.**Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**Additional ecological information:****General notes:**

Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

Avoid transfer into the environment.

Results of PBT and vPvB assessment**PBT:** Not applicable**vPvB:** Not applicable.**Other adverse effects:** No further relevant information available.**13 DISPOSAL CONSIDERATIONS****Waste treatment methods:****Recommendation:** Consult state, local or national regulations to ensure proper disposal.**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**14 TRANSPORT INFORMATION****UN Number**

DOT, ADN, IMDG, IATA Not applicable

UN proper shipping name

DOT, ADN, IMDG, IATA Not applicable

Transport hazard class(es)DOT, ADR, ADN, IMDG, IATA
Class Not applicable**Packaging group**

DOT, IMDG, IATA Not applicable

Environmental hazards: Not applicable**Special precautions for user:** Not applicable**Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:** Not applicable**Transport / Additional information:**

DOT

Marine Pollutant (DOT): No**UN: "Model Regulation":** -**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:**

All components of the product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List (DSL).

SARA section 313 (specific toxic chemical listings): Substance is not listed.

CELOGEN[®] RA**California Proposition 65:**

Prop 65 – Chemicals known to cause cancer: Substance is not listed.

Prop 65 – Developmental toxicity: Substance is not listed.

Prop 65 – Developmental toxicity, female: Substance is not listed.

Prop 65 – Developmental toxicity, male: Substance is not listed.

Information about limitation of use: For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations:

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006: Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed: Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorization for use): Substance is not listed.

REACH – Pre-registered substances: Substance is listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

DOT: US Department of Transportation

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

vPvB: very Persistent and very Bioaccumulative

ACGIH: American Conference of Governmental Industrial Hygienists (USA)

OSHA: Occupational Safety and Health Administration (USA)

NTP: National Toxicology Program (USA)

IARC: International Agency for Research on Cancer

EPA: Environmental Protection Agency (USA)