

MATERIAL SAFETY DATA SHEET

2,2,5,5-TETRAMETHYL-3-PYRROLIDINECARBOXAMIDE

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| SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION | | |
|--|---|--|
| Company Identification: | Georganics Ltd. | |
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| | Slovak Republic | E-mail address: georganics@georganics.sk |
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| | Mobil: +421 911 166 066 | |

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Symbol:



Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin

Xi - irritant

Signal word:

GHS pictogram:



H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray Warning

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

| SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS | | | |
|---|--|-----------|-----------|
| CAS# | Chemical Name | Assay (%) | EINECS# |
| 702-96-5 | 2,2,5,5-Tetramethyl-3-pyrrolidinecarboxamide | 98 | 211-871-3 |

| SECTION 4 | - FIRST | AID MEASURES |
|-----------|---------|--------------|

Eyes: Rinse opened eye for at least 15 minutes under running water. Get medical aid. Skin: Instantly wash with water and soap and rinse thoroughly. Get medical aid.

Ingestion: Wash mouth out with water. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If required,

provide artificial respiration. Get medical aid.

| SECTION 5 - FIRE FIGHTING MEASURES | | |
|------------------------------------|--|--|
| Suitable extinguishing agents | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide or appropriate foam. | |
| Protective equipment: | Wear self-contained breathing apparatus and protective clothing to prevent contact with skin/eyes. | |
| Unusual fire and explosions | During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion. | |
| hazards: | | |

| SECTION 6 - ACCIDENTAL RELEASE MEASURES | |
|---|---|
| Person-related safety precautions: | Wear protective equipment as indicated in section 8.Ensure adequate ventilation. Avoid dust |
| | formation. Avoid breathing dust. Wash spill site after material pickup is complete. |
| T | |

Environmental precautions Do not let product enter drains. Additional information:

See Section 7 for information on safe handling. See section 8 for information on personal

protection equipment. See Section 13 for information on disposal.

SECTION 7 - HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Avoid dust

formation.

Store in a dry, cool and well-ventilated place. Keep container closed when not in use. See Section 10 for stability and Storage:

reactivity information.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Safety

shower and eye bath.

Personal Protective Equipment

Eyes: Wear chemical safety glasses.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective work clothing.

Respirators: Use breathing protection with high concentrations.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Solid Form: Not available Color: **Boiling Point:** Not available **Freezing/Melting Point:** 128 - 131 °C Flash Point: Not available Not available **Decomposition Temperature:** Not available Solubility in water: Not available Specific Gravity/Density: **Refractive Index:** Not available Molecular Formula: $C_9H_{18}N_2O$ 170,26 Molecular Weight:

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Materials to be avoided: Strong oxidants.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides

SECTION 11 - TOXICOLOGICAL INFORMATION

Carcinogenicity: There are no known carcinogenic chemicals in this product. No classification data on carcinogenic

properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Potential Health Effects: Inhalation may cause respiratory irritation. May be harmful if inhaled, swallowed or absorbed through skin.

Other: The toxicological properties have not been fully investigated.

SECTION 12 - ECOLOGICAL INFORMATION

No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

IATA IMO RID/ADR
Not regulated Not regulated Not regulated

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi - irritant

Risk Phrases: R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases: S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S 36 Wear suitable protective clothing.

Canadian DSL/NDSL CAS# 702-96-5 is listed on Canada's DSL or NDSL List.

US Federal TSCA CAS# 702-96-5 is listed on the TSCA Inventory. It is for research and development use only.

SECTION 16 - OTHER INFORMATION

WARRANTY

The information contained in the MSDS are compiled according to the present knowledge of the manufacturer. It does not represent any guarantee of the properties of the product. MSDS shall be used only as a guide. Georganics Ltd. is not liable for damages incurred in the handling or contact with chemicals.