

# Material Safety Data Sheet

Print Date: September 4, 2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: tri-tert-butyl 1,4,8,11-tetraazacyclotetradecane-1,4,8-tricarboxylate

Catalog Number: 169243

CAS Number: 170161-27-0

**Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses**

Laboratory chemicals, Manufacture of substances.

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## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient name: tri-tert-butyl 1,4,8,11-tetraazacyclotetradecane-1,4,8-tricarboxylate

CAS number: 170161-27-0

Molecular Formula: C<sub>25</sub>H<sub>48</sub>N<sub>4</sub>O<sub>6</sub>

Molecular Weight: 500.681

## 3. HAZARDS IDENTIFICATION

**GHS Classification**

Acute toxicity, Oral(Category 4)

Skin corrosion/irritation(Category 2)

Serious eye damage/eye irritation(Category 2A)

Specific target organ toxicity-single exposure(Category 3), Respiratory System

**GHS label elements, including precautionary statements**

Pictogram:



Signal word: Warning

**Hazard Statement(s):**H302 Harmful if swallowed  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation**Precautionary Statement(s):**P261 Avoid breathing dust/fume/gas/mist/vapours/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.

## 4. FIRST AID MEASURES

**In case of eye contact:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If inhaled:**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:**

Wash off with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

**If swallowed:**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:**

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

**Special protective equipment for firefighters:**

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions:

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions:

Do not let product enter drains.

### Methods and materials for containment and cleaning up.

Absorb spills on sand or vermiculite and place in closed container for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash thoroughly after handling.

### Conditions for safe storage:

Keep container tightly closed in a cool, dry, well-ventilated place.

### Recommended storage temperature:

Room temperature.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Engineering controls:

Use only in a chemical fume hood.

### Personal protective equipment:

Wear chemical-resistant gloves, safety goggles.

### General hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White solid      **Odor:** Not Available

**Boiling Point:** Not Available      **Melting Point:** Not Available

**Flash Point:** Not Available      **Density:** Not Available

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under recommended storage conditions.

**Materials to avoid:** No data available.

**Conditions to avoid:** Strong oxidizer; strong acid.

**Possible hazardous combustion products:** Carbon oxides; hydrogen chloride; nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

No Data.

## 12. ECOLOGICAL INFORMATION

No Data.

## 13. DISPOSAL CONSIDERATIONS

Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.

## 14. TRANSPORTATION INFORMATION

Non-hazardous for air and ground transportation. Or not available.

## 15. REGULATORY INFORMATION

**Indication of danger:** No data.

**Risk statement:** No data.

**Safety statement:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

## 16. OTHER INFORMATION

*The above information is believed to be correct at the date of its publication but does not supposed to be all-inclusive and shall be used only as a guide. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.*

**ChemShuttle** should not be held liable for any damage resulting from handling or from contact with the above product.