



Revision Date: 14/02/2012

## MATERIAL SAFETY DATA SHEET

### SECTION 1 – PRODUCT IDENTIFICATION / MANUFACTURER

**Trade name and synonym:** N-desmethyiltrimebutine hydrochloride

**Synonym :** -

**Catalogue Number:** MM7951

**Manufacturer:** @rtMolecule  
40 avenue du Recteur Pineau  
86022 Poitiers cedex

**Telephone Number:** 33(5) 49 45 41 21

**Facsimile Number:** 33(5) 49 45 41 21

**Email:** contact@artmolecule.fr

**Web:** www.artmolecule.fr

### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENT

**CAS number:** 294882-33-0

**Formula:** C<sub>21</sub>H<sub>28</sub>ClNO<sub>5</sub>

**Molecular Weight:** 409.91

**Composition:** Pure Material

### SECTION 3 – HAZARDS IDENTIFICATION

**Adverse Effects:** N/a

**Overdose Effects:** N/a

**Acute:** N/a

**Chronic:** N/a

**Medical Conditions Aggravated by Exposure:** N/a

**Cross Sensitivity:** N/a

**Target Organs:** N/a

**For additional information on toxicity, see Section 11.**

### SECTION 4 – FIRST AID MEASURES

**Inhalation:** N/a

**Eye:** N/a

**Skin:** N/a

**Ingestion:** N/a

**General First Aid Procedures:** Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing give artificial respiration. If breathing is difficult give oxygen. Obtain medical attention.

## SECTION 5 – FIRE FIGHTING MEASURES

**Extinguisher Media:** Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.

**Fire and Explosion Hazards:** This material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.

**Firefighting Procedures:** As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill Response:** Wear approved respiratory protection, chemically compatible gloves and protective clothing. Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labelled container for disposal. Wash spill site.

## SECTION 7 – HANDLING AND STORAGE

**Handling:** Avoid breathing vapour, mist or gas. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

**Storage Requirements:** Store in a tightly closed container. Store in a cool (+5°C), dry, well-ventilated area away from incompatible substances and light.

## SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep air-borne concentrations low.

**General hygiene measures:** Wash thoroughly after handling.

### Personal protective equipment

**Eyes:** Wear appropriate protective glasses or chemical safety goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN 5EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type (N95 (US) or type P1 (EN143) respirator.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Properties as indicated on the MSDS are general and not necessarily specific to the @rtMolecule Lot provided.**

**Appearance and Odor:** Solid

**Odor Threshold:** N/a

**pH:** N/a

**Melting Range:** N/a

**Boiling Point:** N/a

**Flash Point:** N/a

**Autoignition Temperature:** N/a

**Evaporation Rate:** N/a  
**Upper Flammability Limit:** N/a  
**Lower Flammability Limit:** N/a  
**Vapor Pressure:** N/a  
**Vapor Density:** N/a  
**Specific Gravity:** N/a  
**Solubility in Water:** N/a  
**Fat Solubility:** N/a  
**Other Solubility:** N/a  
**Partition Coefficient: n-octanol/water:** N/a  
**Percent Volatile:** N/a  
**Reactivity in Water:** N/a  
**Explosive Properties:** N/a  
**Oxidizing Properties:** N/a  
**Formula:** C<sub>21</sub>H<sub>28</sub>ClNO<sub>5</sub>  
**Molecular Weight:** 409.91

## SECTION 10 – STABILITY AND REACTIVITY

**Conditions to Avoid:** Avoid exposure to heat and moisture.  
**Incompatibilities:** N/a  
**Decomposition Products:** When heated to decomposition material emits toxic fumes of SO<sub>2</sub>, NO<sub>x</sub>, formaldehyde, and formic acid.  
**Emits toxic fumes under fire conditions.**  
**Stable?** N/a  
**Hazardous Polymerization?** N/a

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Oral Rat: LD<sub>50</sub>:** N/a  
**Oral Mouse: LD<sub>50</sub>:** N/a  
**Other Toxicity Data:** N/a  
**Irritancy Data:** N/a  
**Corrosivity:** N/a  
**Sensitization Data:** N/a  
**Listed as a Carcinogen by:**  
**NTP:** N/a      **IARC:** N/a      **OSHA:** N/a  
**Other Carcinogenicity Data:** N/a  
**Mutagenicity Data:** N/a  
**Reproductive and Developmental Effects:** N/a

## SECTION 12 – ECOLOGICAL INFORMATION

**Ecological Information:** N/a

## SECTION 13 – DISPOSAL CONSIDERATION

**Substance disposal:** Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

#### SECTION 14 – TRANSPORT INFORMATION

**RID/ARD:** N/a

**IMDG:** N/a

**IATA:** N/a

#### SECTION 15 – REGULATORY INFORMATION INFORMATION

N/a

#### SECTION 16 – OTHER INFORMATION

**Warranty:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

**Use of product:** For R&D use only. Not for drug, household or other uses.