

MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT INFORMATION

Product Identifier: RU-58841 5% + Minoxidil 5% Solution in Propylene Glycol CAS # 154992-24-2; 38304-91-5
Synonyms: 4-[3-(4-hydroxybutyl)-4,4-dimethyl-2,5-dioxo-1-imidazolidinyl]-2-(trifluoromethyl)-benzonitrile;
Product Use: For research purposes. Not for human or veterinary use.
Supplier: Vantanex Corp, 1742 26th Ave SW, Calgary AB, T2T1C8, www.vantanex.com
Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

SECTION 2 — HAZARDOUS INGREDIENTS

Classification of the Substance or Mixture: Based on evaluation of available data this substance or mixture is not classifiable according to GHS.
GHS Signal Word: None No phrases apply. GHS Precautionary Phrases: No phrases apply.
GHS Storage and Disposal Phrases: 2.3 Material may be irritating to mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or absorption. May cause eye, skin, or respiratory system irritation. To our knowledge, toxicological properties have not been investigated

SECTION 3 — PHYSICAL DATA

Physical State : Solid	Odour & Appearance : Odourless white powder
Molecular Weight: 369.3383g/mol	Molecular Formula: C17H18F3N3O3
Odour Threshold (ppm): N/A	Specific Gravity: N/A
Vapour Density (air = 1) : N/A	Vapour Pressure (mmHg) : N/A
Evaporation Rate: N/A	Boiling Point (°C) : N/A
Freezing Point (°C): N/A	pH Coefficient of Water/Oil Distribution: N/A

SECTION 4 — FIRE AND EXPLOSION DATA

Means of Extinction: water spray, carbon dioxide, dry chemical powder or foam	Flashpoint (°C) and Method : N/A
Upper Flammable Limit (% by volume) : N/A	Lower Flammable Limit (% by volume): N/A
Autoignition Temperature (°C): N/A	Explosion Data — Sensitivity to Impact: No
Explosion Data — Sensitivity to Static Discharge: No	Hazardous Combustion Products: Thermal decomposition may produce toxic gases such as carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen fluoride.

SECTION 5 — REACTIVITY DATA

Chemically Stable Yes Incompatibility: Strong Oxidizers Thermal Decomposition/Conditions to be avoided: Protect from light and heat.
Hazardous Decomposition Products: Thermal decomposition may produce toxic gases (CO, CO₂, nitrogen oxides, hydrogen fluoride)

SECTION 6 — TOXICOLOGICAL PROPERTIES

Acute Exposure: May be harmful by inhalation, ingestion or eye and/or skin absorption.	Chronic Exposure: not available
Exposure Limits: (value, source, date) not available	Irritancy: May cause irritation to eye, mucous membranes, upper respiratory system, and/or skin.
Sensitization: not available	Carcinogenicity: not available
Reproductive Toxicity: not available	Teratogenicity: not available
Mutagenicity : not available	Synergistic Products: not available

SECTION 7 — PREVENTIVE MEASURES

Personal Protective Equipment: Particulate respirators, chemical resistant gloves, chemical safety glasses/goggles, lab coat
Handling: Avoid inhalation and contact with skin, eyes and clothing.
Leak and Spill Procedure: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Wipe contaminated surface.
Waste Disposal: Dispose of according to local and regional authority requirements.
Engineering Controls: If operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Storage Requirements: Tightly sealed in a cool, dry place. Special Shipping Information: N/A PIN/UN#: not available

SECTION 8 — FIRST AID MEASURES

Inhalation: If inhaled, seek fresh air; breathing difficulties: use oxygen; breathing stops, artificial respiration.
Ingestion: If swallowed, wash out mouth with copious amounts of water; call a physician
Skin Contact: Immediately wash skin with soap and water for 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur.
Eye Contact: remove contact lenses and flush with large amounts of water; adequate flushing by separating the eyelids with fingers; call a physician

SECTION 9 — PREPARATION INFORMATION

Prepared by: Vantanex Corp Telephone Number: 1(403) 903-5740 Preparation Date: June 24th, 2020

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.