

MATERIAL SAFETY DATA SHEET (MSDS)



FASTRATE™ UNIT DOSE TITRATION STANDARDS

This document has been prepared in accordance with the requirements of the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 29 Code of Federal Regulations (CFR) 1910.1200, the European Union (EU) Directive 91/155/EEC, and other regulatory requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	FASTRATE™ Unit Dose Titration Standard
Alternate Product Name(s):	FASTRATE™ 1 mg Calibration Standard for Titration FASTRATE™ 2 mg Calibration Standard for Titration FASTRATE™ 5 mg Calibration Standard for Titration FASTRATE™ 10 mg Calibration Standard for Titration FASTRATE™ 25 mg Calibration Standard for Titration
Product Code(s):	Item Number 151001 – FASTRATE™ 1 mg Item Number 120213 – FASTRATE™ 2 mg Item Number 120222 – FASTRATE™ 5 mg Item Number 110809 – FASTRATE™ 10 mg Item Number 111017 – FASTRATE™ 25 mg
Chemical Name:	Not applicable
Molecular Formula:	Not applicable
Chemical Family:	Reference standard for analytical testing only. Not for use in humans or animals.
MSDS FID:	108249
Date Prepared:	11/17/15
Revision:	7
Classification:	Non-hazardous

MANUFACTURER

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description:	Mixture of compounds typical and common in the art of tablet making A composition of fine or free-flowing powders (solids)
Ingredients:	Chemical identity is being withheld as a trade secret but ingredients are classified as non-hazardous Individual ingredients are not classified as carcinogens

3. HAZARDS IDENTIFICATION

Emergency Overview:	May form combustible dust concentrations in air when disturbed and dispersed. May cause eye, skin, and respiratory tract irritation. Ingestion may cause gastric disturbances. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dusts. Use local exhaust ventilation
Hazard Class:	Not regulated; non-hazardous
Health Hazard:	No significant health hazard expected May be harmful if ingested in great quantity May be irritating to eyes and respiratory system if inhaled as dust

4. FIRST AID MEASURES

Eyes:	Irrigate thoroughly with water (at least 15 minutes). If irritation persists, seek medical attention
Skin:	Wash thoroughly with soap and water. Seek medical attention if irritation persists
Ingestion:	No hazard anticipated from ingestion incidental to industrial exposure. Drink plenty of water and seek medical attention if discomfort persists
Inhalation:	Non-hazardous, nuisance dust. Remove to fresh air. If breathing difficulty or discomfort persists, seek medical attention
Other:	Low oral, dermal and inhalation toxicity that is non-irritating to skin and eyes and non-sensitizing to the skin

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Water, dry powder, CO2
Fire and Explosion Hazards:	Combustible. Dust explosion hazard. Avoid conditions of dust concentration, especially overhead
Fire Fighting Procedures:	Normal precautions against smoke inhalation; do not enter any enclosed or confined space without wearing full protective clothing and Self-Contained Breathing Apparatus (SCBA) approved for firefighting
Hazardous Decomposition:	CO2, H2O, and typical combustion by-products
Flash Point and Method:	Not applicable
Flammable Limits:	Not applicable
Autoignition Temperature:	Not available

6. ACCIDENTAL RELEASE MEASURES

General:	Maintain good housekeeping procedures to minimize accumulation of settled dust, especially on overhead surfaces
Personal Precautions:	Typical Personal Protective Equipment (PPE) - dust mask, gloves, gown, and goggles are recommended
Environmental Precautions:	Non-hazardous. Spills of this material are not subject to any special reporting requirements under the current environmental legislation in either the USA or European Union
Recovery:	Dispose of product in accordance with all applicable local, state, and federal regulations

7. HANDLING AND STORAGE

General:	Use local exhaust to control exposure to dust
Storage:	Store in a well-closed tight container, at room temperature (15°C-30°C) conditions. Keep away from moisture
Handling:	Typical Personal Protective Equipment (PPE) - dust mask, gloves, gown, and goggles are recommended. Cleaning and housekeeping procedures should minimize dust creation

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (NORMAL USE)

Occupational Exposure Limits:	Non-hazardous nuisance dust. OSHA Permissible Exposure Limit (PEL) 15 mg/m ³ total dust and 5 mg/m ³ respirable fraction; 10 mg/m ³ TWA (ACGIH)
Engineering Measures:	Use local exhaust
PPE:	Respiratory – dust mask or respirators recommended Hand – gloves not required but recommended Eye – goggles recommended Clothing – gowns not required but recommended

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Round tablet with flat, beveled edges
Odor:	Odorless
pH:	Not Applicable
Viscosity:	Not Applicable
Boiling Point:	Not Applicable
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Solubility:	Generally insoluble in water

10. STABILITY AND REACTIVITY

Stability:	Stable if stored at recommended conditions
Conditions To Avoid:	Dust formation; electro-static charge; all sources of ignition; moisture; high temperature; high humidity
Hazardous Decomposition Products:	None known
Materials to Avoid:	Oxidizing substances; processing equipment not suited for food and/or pharmaceutical industries; strong alkalies; strong acids; strong bases

11. TOXICOLOGICAL INFORMATION

Eye Effects:	None known; non-irritating
Skin:	None known; non-irritating
Ingestion:	No hazard anticipated incidental to industrial exposure
Inhalation:	No hazard anticipated incidental to industrial exposure
Acute:	Low oral, dermal and inhalation toxicity that is non-irritating to skin and eyes and non-sensitizing to the skin
Chronic:	No adverse human effects are known No evidence of carcinogenic, mutagenic, or teratogenic effects
Carcinogenicity:	IARC – Not listed NTP – Not listed OSHA – Not listed ACGIH – Not listed

12. ECOLOGICAL INFORMATION

Environmental:	Inherently biodegradable
Ecotoxicological:	Rainbow Trout – 96 hour LC50 > 100%, saturated solution; NOEC = 100%; Daphnia – 48 hour LC50 > 100%, saturated solution; NOEC = 100%; Algae - 96 hour EC50 > 100%, saturated solution; NOEC = 12.5%
Other:	None known

13. DISPOSAL CONSIDERATIONS

No special methods suggested Dispose of product in accordance with all applicable local, state, and federal regulations

14. TRANSPORTATION INFORMATION

Not regulated:	Reference standard for analytical testing only. Not for use in humans or animals
Transport Classification:	Not regulated
Identification Number:	Not applicable
Proper Shipping Name:	Not applicable
ICAO/IAT/IMDG Class:	Not applicable
Subsidiary Risk:	Not applicable
Packing Group:	Not applicable
ADR Class:	Not applicable
Transport Hazard Symbol:	Not applicable
Hazard Identification Number:	Not regulated
Emergency Action Code:	Not applicable
U.S. DOT:	Not listed in Title 49 of the U.S. CFR as a hazardous material
MARPOL Designation:	None
Canada (TDG):	Not applicable

15. REGULATORY INFORMATION

United States:	SARA Title III (Superfund Ammendments and Reauthorization Act) Section 311 Hazard Categories (40 CFR 370) – None Section 312 Threshold Planning Quantities (40 CFR 370): The threshold Planning Quantity (TPQ) of this product if treated as a mixture is 10,000 lbs. This product contains the following ingredients with a TPQ of less than 10,000 lbs. - None Section 313 Reportable Ingredients (40 CFR 372) - This product does not contain any toxic chemicals subject to the reporting requirements of Section 313, Title III of SARA of 1986
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15. REGULATORY INFORMATION (cont.)

TSCA (Toxic Substance Control Act): TSCA Inventory (40 CFR 710, Subpart b) – Yes

Canada: WHMIS (Workplace Hazardous Materials Information system) - Not a controlled product under WHMIS

General: Symbols - Not classified as hazardous
Risk Phrases - Not classified as hazardous
Safety Phrases - Not classified as hazardous
Supply Classification - Not regulated

16. OTHER INFORMATION

NFPA RATING: **HEALTH = 1**
 FLAMMABILITY = 1
 REACTIVITY = 0
 SPECIAL = NONE

NFPA Degree of Hazard Code: 4 = Extreme
 3 = High
 2 = Moderate
 1 = Slight
 0 = Insignificant

NFPA = National Fire Protection Association

The above information is believed to be correct but is not purported to be all-inclusive and shall be used as a guide. FACET® Analytical Services and Technology, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.

