


Section 1: Identification

Common Name/Trade Name	METRONIDAZOLE POWDER	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	N/A	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Carcinogenicity (Category 2), Specific target organ toxicity, repeated exposure (Category 2) nervous system	
Signal Word	Warning	
Hazard Statement(s)	H351 H373	Suspected of causing cancer May cause damage to organs through prolonged or repeated exposure
Pictogram(s)		
Precautionary Statement(s)	P201 P202 P280 P308+P313 P405 P501	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned Get medical advice/attention. Store locked up. Dispose of contents/container to an approved waste disposal plant.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	1H-Imidazole-1-ethanol, 2-methyl-5-nitro-
Common Name	Metronidazole
CAS Number	443-48-1
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	Indication of immediate medical attention and special treatment needed: Treatment for overdose should be symptomatic and supportive and may include the following: Administer activated charcoal as a slurry. This is most effective when administered within one hour of ingestion. Consider gastric lavage with a large-bore orogastric tube if it can be performed soon after ingestion, unless contraindicated. Control seizures prior to initiation and protect airway. For seizures: Administer intravenous benzodiazepines. Consider phenobarbital if seizures are uncontrollable or recur. Monitor for hypotension, dysrhythmias, respiratory depression, and need for endotracheal intubation. Evaluate for hypoglycemia, electrolyte disturbances, and hypoxia. Perform baseline CBC and renal and hepatic function tests. Metronidazole is rapidly removed by hemodialysis. Peritoneal dialysis is less effective (Meditext 2007) General information: Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
If Inhaled	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
In Case of Skin Contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
In Case of Eye Contact	Rinse with water. Get medical attention if irritation develops and persists.
If Swallowed	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most Important Symptoms and Effects	Not available.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials. Water. Foam. Dry chemical or CO2.
Special Hazards Arising From the Substance/Mixture	No unusual fire or explosion hazards noted.
Special PPE and/or Precautions for Firefighters	Wear suitable protective equipment. Use water spray to cool unopened containers. 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

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective clothing.
Methods and Materials Used for Containment	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.
Cleanup Procedures	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.

Section 7: Handling and Storage

Precautions for Safe Handling	As a general rule, avoid all contact and inhalation of dust, mist, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly.
Conditions for Safe Storage	Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	No data available
Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.
PPE - Eye/Face Protection	Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g. bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.
PPE - Skin Protection	Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.
PPE - Body Protection	For handling of laboratory or scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.
PPE - Respiratory Protection	Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).

Section 9: Physical and Chemical Properties

Appearance	White to pale yellow crystalline powder
Upper/Lower Flammability or Explosive Limits	Not available
Odor	Odorless or slight odor.
Vapor Pressure	< 0.0000001 kPa at 25°C
Odor Threshold	Not available
Vapor Density	Not available.
pH	5.8 (saturated aqueous solution)
Relative Density	Not available
Melting Point/Freezing Point	Melting point/freezing point: 316.4-325.4°F (158-163°C)
Solubility	Sparingly soluble in water. Sparingly soluble in alcohol and in dimethylformamide; slightly soluble in chloroform, in ether, in acetone, and in methyl chloride; soluble in dilute acids.
Initial Boiling Point and Boiling Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (Solid, Gas)	Not available
Partition Coefficient	-0.02
Auto-Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available

Section 10: Stability and Reactivity

Reactivity	No reactivity hazards known.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	None known.
Incompatible Materials	Strong acids. Bases. Oxidizers. Aluminum.
Hazardous Decomposition Products	NOx. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 Oral, Mouse 3800 mg/kg. Rat 3000 mg/kg.
Acute Toxicity - Inhalation	Due to lack of data the classification is not possible.
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	No data available
Skin Corrosion/Irritation	Based on available data, the classification criteria are not met.
Serious Eye Damage/Irritation	Due to lack of data the classification is not possible.
Respiratory or Skin Sensitization	Due to lack of data the classification is not possible.
Germ Cell Mutagenicity	Due to lack of data the classification is not possible. Data from germ cell mutagenicity tests were not found.
Carcinogenicity IARC	Suspected of causing cancer. IARC: Group 2B; Possible carcinogenic to humans.
Carcinogenicity ACGIH	No data available
Carcinogenicity NTP	No data available
Carcinogenicity OSHA	No data available
Reproductive Toxicity	Due to lack of data the classification is not possible. Reproductivity studies in animals have yielded mixed results.
Specific Target Organ Toxicity - Single Exposure	Due to lack of data the classification is not possible.
Specific Target Organ Toxicity - Repeated Exposure	May cause damage to organs (nervous system) through prolonged or repeated exposure.
Aspiration Hazard	Based on available data, the classification criteria are not met.

Section 12: Ecological Information

Toxicity	No ecotoxicity data noted for the ingredient(s).
Persistence and Degradability	No data is available on the degradability of this product.
Bio-accumulative Potential	Not available.
Mobility in Soil	Not available.
Other Adverse Effects	Not available.

Section 13: Disposal Considerations

Waste Treatment Methods Product	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Waste Treatment Methods Packaging	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	N/A

Section 15: Regulatory Information

US federal regulations: CERCLA/SARA Hazardous Substances - Not applicable. One or more components are not listed on TSCA. Hazard Categories Immediate Hazard-Yes Delayed Hazard -Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance: No. SARA 311/312 Hazardous chemical: No. Other federal regulations: Safe Drinking Water Act (SDWA): Not regulated. Food and Drug Administration (FDA): Not regulated. US state regulations: WARNING: This product contains a chemical known to the State of California to cause cancer. International Inventories: Country(s) or region/Inventory Name/On inventory (yes/no)*: Australia/Australian Inventory of Chemical Substances (AICS)/Yes. Canada/Domestic Substances List (DSL)/Yes. Canada/Non-Domestic Substances List (NDSL)/No. China/Inventory of Existing Chemical Substances in China (IECSC)/Yes. Europe/European Inventory of Existing Commercial Chemical Substances (EINECS)/Yes. Europe/European List of Notified Chemical Substances (ELINCS)/No. Japan/Inventory of Existing and New Chemical Substances (ENCS)/Yes. Korea/Existing Chemicals List (ECL)/Yes. New Zealand/New Zealand Inventory/Yes. Philippines/Philippine Inventory of Chemicals and Chemical Substances (PICCS)/Yes. United States & Puerto Rico/Toxic Substances Control Act (TSCA) Inventory/No. *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

Section 16: Other Information

Additional Information	N/A
Prepared By	Lisa Russell
Revision Date	01/11/2019 09:16

Disclaimer

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