

METRONIDAZOLE



Kimyagaran Emrooz

Chemical Industries.

Material Safety Data Sheet



PRODUCT AND COMPANY IDENTIFICATION

Product Name: Metronidazole

Product Description: 1-(β -hydroxyethyl)-2-methyl-5-nitroimidazole

CAS No.: 443-48-1

Chemical Family: Nitro Imidazole

Manufacturer: Kimyagaran Emrooz Chemical Ind.

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2. COMPOSITION

Chemical Name	Wt.%	CAS No.
Metronidazole	99-101	443-48-1

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Very hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation. Hazardous in case of ingestion. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:

Very hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation. Hazardous in case of ingestion. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

4. FIRST AID MEASURES

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyes open. Cold water may be used. Do not use an eye ointment. Get medical attention immediately.

Skin Contact: In case of contact wash immediately with plenty of water. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Remove contaminated clothes and shoes. Wash clothing and shoes thoroughly before re-using.

Inhalation: If inhaled, remove to fresh air. Get medical attention.

Ingestion: If swallowed, do not induce vomiting. If victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention immediately.



5. FIRE-FIGHTING MEASURES

Flammability of the Product: May be combustible at high temperature

Flash Point (Method Used): Not Available

Extinguishing Methods: Small Fire: Use DRY chemical powder.

Large Fire: Use water, fog or foam. Do not use water jet.

6. ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. HANDLING AND STORAGE

Precautions: Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage: Keep in cool ventilated area out of reach of children. Keep container tightly closed and sealed until ready to use.

Personal Protection: Safety glasses, lab coat and gloves (impervious). Wear appropriate respirator when ventilation is inadequate.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Respiratory protection is not needed during normal product use.

Skin Protection: If solution contact with unprotected skin is likely, use of impervious gloves is a prudent practice.

Ventilation: Handle product in a well-ventilated area.

Eye Protection: Eye protection is not required during expected product use conditions but may be warranted should a splash potential exist.

Other Protective Clothing or Equipment: Lab coat

Work/Hygienic Practices: Wash hands following use. No eating, drinking, or smoking when handling this product.



Hand Chemical resistant gloves required for prolonged or repeated contact.
Eyes Wear tightly fitting safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Solid. (Powdered solid.)

Odor: Slight.

Taste: Bitter

Molecular Weight: 171.2 g/mole

Color: White to yellowish.

pH (1% soln/water): 7 [Neutral.]

Boiling Point: Not available.

Melting Point: 159°C

Solubility: Very slightly soluble hot water.

10. STABILITY AND REACTIVITY

Stability: The product is stable.

Incompatibility with various substances: Reactive with oxidizing agents.

Polymerization: No.

11. TOXICOLOGICAL INFORMATION

No information available at this time.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Disposal should be performed in accordance with local regulatory requirements.

Container Handling and Disposal Dispose of container and unused contents in accordance with local regulations.



14. TRANSPORT INFORMATION

It is not classified as a dangerous substance for transport.

UN No.: Not Allocated

15. OTHER INFORMATION

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.