

MATERIAL SAFETY DATA SHEET

(MSDS Sheet is in compliance with 29CFR 1910. 1200)

Manufacturer:
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Date Prepared: 11/30/1998
CAT #: NA-32 or NA-100

Product Trade name: Nitric Acid Decal Solution
Product Description: Biological Bone Decalcification Solution

Section I Hazardous Composition Information

Hazardous Components	CAS No.	OSHA PEL	ACGIH / TLV	TWA
Nitric Acid	7697-37-2	n/a	n/a	2mg/m3

Section II Physical and Chemical Characteristics

Specific Gravity: n/a (Water = 1.0)@ 77 F
Solubility in Water: Soluble
SP. Gravity of Vapor: n/a
Evaporation Rate (n-Bu Acetate = 1): n/a
Vapor Pressure: n/a
Viscosity: n/a
Boiling Point: n/a
Color: Colorless to slight yellow **Odor:** Strong pungent odor **State:** Liquid

Section III Stability and Reactivity

Stability: Stable
Conditions to Avoid: n/a
Hazardous Polymerization: Will not occur.
Incompatible Materials: Highly reactive with alkalis, metals, organic materials, reducing agents, acids.
Hazardous Decomposition Products: Products of biodegradation are nitric acid fumes.

Section IV Fire and Explosion Data

Flashpoint: Non-flammable
Flammable Limits: **LEL:** n/a **UEL:** n/a
Auto-Ignition Temperature: n/a
Extinguishing Media: Foam, Dry Chemical, CO2.
Special Fire Fighting Procedure: n/a
Decomposition Products Under Fire Conditions: May produce acrid smoke conditions.

Section V Health Hazard Data

Acute Health Effects:

Eye Contact: Contact with eyes will cause irritation.
Skin Contact: Contact with skin will cause irritation.
Inhalation: Contact by inhalation will cause mucous membrane irritation and lung irritation.
Ingestion: Contact by ingestion will cause discomfort.

Chronic Health Effects:

Eye Contact: Prolonged exposure will cause chemical burns to eyes and possible blindness.

Skin Contact: Prolonged exposure will cause severe chemical burns to skin and tissue components.

Inhalation: Prolonged inhalation will cause irritation to mucous membranes and damage to respiratory system.

Ingestion: Repeated exposure by ingestion may cause general deterioration of health by accumulation in one or more target organs. May be fatal if swallowed.

Medical Conditions Aggravated by Exposure: n/a

Section VI Emergency First Aid Procedures

Eye Contact: Flush eye with copious amounts of water or saline solution. Seek Medical Attention.

Skin Contact: Wash contact area with soap and water. Seek medical attention if symptoms persist.

Inhalation: Remove employee to well ventilated area. Seek immediate medical attention. Consult medical advise from trained personnel for unconscious victim.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

Section VII Spill, Disposal and Storage Methods

Accidental Spill: Immediately inform employees. Wear gloves and goggles and absorb spill with acid neutralizing absorbent. If not available, add baking soda to spill, followed with an absorbent such as sand or paper towels. Clean up spill with soap and water. Never use bleach or products containing chlorine.

Waste Disposal: All waste must be disposed in accordance to local, state, and federal regulations.

Storage: Store in original container or LDPP, HDPE or any plastic container. Corrosive to metals. Store at room temperature.

Section VIII Personal Protection and Handling

Ventilation: Work in well ventilated area.

Respiratory Protection: Wear OSHA approved respirators.

Eye Protection: Wear goggles or splash shield.

Protective Gloves: Wear latex gloves or impermeable protective gloves.

Other Protective Clothing or Equipment: Wear a rubber or plastic lab apron.

Hygienic Practices: Wash hands before meals or breaks.

Federal and State Regulations: n/a.

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