

AERBIO LTD.
320 North Walnut
Bloomington, IN 47404

Telephone: 812.334.1540

Fax: 812.334.1285

Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Effective Date: 2/6/95
Product Name: NITRIC ACID
Chemical Formula: HNO₃ 70%, H₂O 30%
CAS No.: 7697-37-2

SECTION 2: HAZARDOUS INGREDIENTS:

Very corrosive to skin, eyes, mucous membranes. Fumes are choking when inhaled. Ingestion causes burning of mouth and esophagus, will cause irritation, shock, or death. Continued exposure to vapors will cause bronchitis or pneumonitis. Not considered carcinogenic.

SECTION 3: PHYSICAL DATA

Appearance and Odor:	clear, colorless liquid; pungent odor
Boiling point:(760 mmHg)	121°C
Vapor Pressure (mmHg):	is a constant-boiling acid (min. vapor pressure, max. BP)
Solubility:	soluble in water - infinite
Specific gravity:	1.408

SECTION 4: FIRE AND EXPLOSION DATA

Flash point:	n/a
Flammable limit:	n/a
Extinguishing Media:	water
Unusual Fire and Explosion Hazards:	May cause fire or explosion with combustible, flammables, or reducing agents. Avoid breathing smoke or fumes.
LEL:	n/a
UEL:	n/a

SECTION 5: REACTIVITY DATA

Stable X Unstable

Incompatibilities:	alcohol, charcoal, most organics, and reducing agents
Hazardous Decomposition or byproducts:	n/a
Hazardous Polymerization:	doesn't undergo any spontaneous self-reaction

SECTION 6: HEALTH HAZARD DATA

Threshold Limit Value (TLV):	air: 2 ppm DTLVS
TWA:	2 ppm
TLV-STEL:	4 ppm
Toxicity:	LD _{Lo} oral-human: 430 mg/kg

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage:	Neutralize with soda or lime. Wash up with water. Do not use sawdust, rags or the like as absorbent.
Disposal:	n/a

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SECTION 8: FIRST AID PROCEDURES

Eyes: Wash with water. Get medical attention.
Skin: Wash with water. Get medical attention.
Inhalation: Remove to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if breathing stops.
Ingestion: Give water, do not induce vomiting, give demulcent. Get medical attention.

SECTION 9: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

not available

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SECTION 10: SPECIAL PROTECTION INFORMATION

Ventilation: Use in proper ventilation
Eye Protection: Eye wash; goggles or face shield
Protective Gloves: rubber gloves

SECTION 11: TRANSPORT INFORMATION

DOT classification: corrosive, UN 2031, PGII, Class 8, packing inst. 807 (only if nitric acid% < 20%)
DOT pictograms: Corrosive 8 label