SECTION 4

SDS #: 553.00

Revision Date: December 13, 2013

SECTION I - CHEMICAL FRODUCT AND COMPANY IDEN			
Nitric Acid Solution, Less than 0.2 M			
Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-120	51		
CHEMTREC Emergency Phone Number: (800) 424-9300	Signal Word N	I/A	Pictograms
SECTION 2 — HAZARDS IDENTIFICATION			
This chemical is considered nonhazardous according to GHS classifica Standard. Treat all laboratory chemicals with caution.	ations for the Hazard Co	ommunication	
Although this material is considered to be nonhazardous, unpredictable possible. Prudent laboratory practices should be observed.	e reactions among chen	nicals are always	

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Nitric acid Water	7697-37-2 7732-18-5	HNO ₃ H ₂ O	63.01 18.00	<1.3% 98-99%
		1120		90 9970

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.	NFPA CODE
In case of fire: Use a tri-class dry chemical fire extinguisher.	H-3
	F-0
	R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area and contain the spill with sand or other inorganic absorbent material, neutralize with sodium bicarbonate or calcium hydroxide, and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates, nitrites, and azides. Store in a dedicated acid cabinet and away from any source of water; if an acid cabinet is not available, store in a Flinn Saf-CubeTM. Never store with acetic acid.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash thoroughly after handling. Exposure guidelines: (as nitric acid) PEL 5 mg/m³ (OSHA), TLV 5.2 mg/m³ STEL 10 mg/m³ (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless liquid. Odorless. Soluble: Water pH 1.0 (0.1 M solution)

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with bases, alcohols, alkaline earth metals, galvanized iron, aluminum, organic materials, amines, and acetic acid. Corrodes steel and other metals.

Shelf life: Good, if stored properly

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Eye, skin, mucous membrane irritation possible. Chronic effects: Dental erosion. Target organs: Eyes, skin, respiratory system, teeth. ORL-HUM LDL₀: 430 mg/kg (as nitric acid) IHL-RAT LC₅₀: 244 ppm/0.5 hr (as nitric acid) SKN-RBT LD₅₀: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

May be harmful to aquatic organisms.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #24b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Nitric acid. Hazard class: 8, Corrosive. UN number: NA1760.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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