

MATERIAL SAFETY DATA SHEET

Nitric Acid 0.1 Normal Solution

SECTION 1 . Product and Company Identification

Product Name and Synonym: Nitric Acid 0.1 Normal Solution

Product Code: 270-05

Material Uses:
Manufacturer: OFI Testing Equipment, Inc.
11302 Steeplecrest Drive
Houston, TX 77065 USA
Phone: (713) 880-9885
Fax: (713) 880-9886

Entry Date : 5/12/2010

Print Date: 7/31/2010

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	3			
Flammability:	0			
Reactivity:	0			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA = Not Applicable		NE = Not Established		

SECTION 2 HAZARD IDENTIFICATION

Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview: Poison! Danger! Oxidizer. Contact With Other Material May Cause Fire. Corrosive. Liquid And Mist Cause Severe Burns To All Body Tissue. May Be Fatal If Swallowed. Harmful If Inhaled. Inhalation May Cause Lung And Tooth Damage.

Inhalation: Corrosive! Inhalation of Vapors can Cause Breathing Difficulties and Lead to Pneumonia and Pulmonary Edema, Which may be Fatal. Other Symptoms may Include Coughing, Choking, and Irritation of the Nose, Throat, and Respiratory Tract.

Ingestion: Corrosive! Swallowing Nitric Acid can Cause Immediate Pain and Burns of the Mouth, Throat, Esophagus and Gastrointestinal Tract.

Skin: Corrosive! Can Cause Redness, Pain, and Severe Skin Burns. Concentrated Solutions Cause Deep Ulcers and Stain Skin Yellow or Yellow-Brown Color.

Eye Contact: Corrosive! Vapors are Irritating and may Cause Damage to the Eyes. Contact may Cause Severe Burns and Permanent Eye Damage.

Chronic Exposure: Persons with Pre-Existing Skin Disorders, Eye Disease, or Cardiopulmonary Diseases may be more Susceptible to the Effects of this Substance.

Aggravated by Exposure: Persons with Pre-Existing Skin Disorders or Eye Disease, or Cardiopulmonary Diseases may be More Susceptible to the Effects of this Substance.

SECTION 3 MIXTURE COMPONENTS

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SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Nitric Acid	CAS# 7697-37-2	<1%	W/V	OSHA TWA 2 ppm (5mg/m ³), STEL 4 ppm (10mg/m ³)
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

SECTION 4 FIRST AID MEASURES

Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Water spray, Carbon dioxide, dry chemical, powder, foam.

Fire / Explosion Hazards: May react explosively with combustible organic or readily oxidizing materials.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb with inert material and recover for proper disposal. Neutralize with weak base.

Ventilate area or Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Neutralize with Alkaline Material (Soda Ash, Lime), then Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! If a Leak or Spill has not Ignited, Use Water Spray to Disperse Vapors, to Protect Personnel Attempting to Stop Leak, and to Flush Spills Away from Exposures. US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

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Mechanical
Protective Gloves: NIOSH Approved Gloves
Eye Protection: Splash Goggles
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	~ 0°C	Percent Volatile by Volume:	> 99
Boiling Point:	~ 100°C	Evaporation Rate	1
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Clear, colorless, odorless liquid	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Not flammable		
Specific Gravity:	~ 1.0		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Extreme heat
Materials to Avoid: Oxidizers, bases, metal powders, carbides, organic materials
Hazardous Decomposition Products: Toxic Nitrogen Oxides
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- None

SECTION 12 Ecological Information

Environmental Fate: No information found
Environmental Toxicity: No information found

SECTION 13 Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 Transport Information

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DOT Classification: Nitric Acid Solution, 8, UN2031, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Chemical Inventory Status –

Part 1:Ingredient
Nitric Acid (7697-37-2)
TSCA Yes
EC Yes
Japan YES
Australia Yes

Chemical Inventory Status –

Part 2:Ingredient
Nitric Acid (7697-37-2)
Korea Yes
DSL Yes
NDSL No
Phil. Yes

Federal, State & International Regulations –

Part 1: Ingredient.
Nitric Acid (7697-37-2)
RQ 1000
TPQ 1000
List YES
Chemical Catg No

Federal, State &
International Regulations –

Part 2:Ingredient
Nitric Acid (7697-37-2)
CERCLA 1000
261.33 No
8(d) No

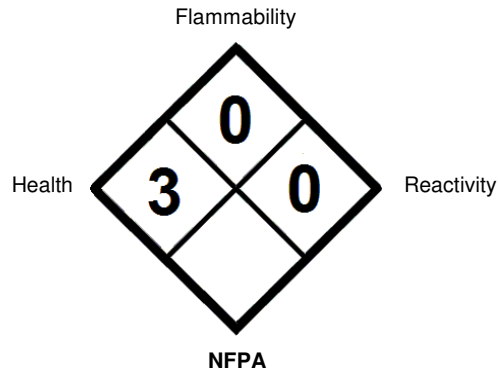
Chemical Weapons Convention: No

TSCA 12 (b):No
CDTA:No MIXTURE/LIQUID
SARA 311/312: Acute:YES
Chronic: YES
Fire: No
Pressure: No
Reactivity: YES
Australian Hazchem Code: 2PE
Poison Schedule:S6

SECTION 16 Additional Information

Conditions aggravated/Target organs: Persons with preexisting skin, eye, or respiratory disorders may be more susceptible. Acute: Corrosive. Irritation and burns to skin, eyes, lungs, mucous membranes, and GI tract.

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Revisions

	0	
7/30/2010	0.1	updated msds to 16 section from 10 section msds. STN

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