#### **MATERIAL SAFETY DATA SHEET**

Nitric Acid

## SECTION 1 . Product and Company Idenfication

Product Name and Synonym: Nitric Acid

Product Code: 6459

Material Uses:

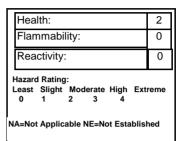
Manufacturer: Science Stuff

1104 Newport Ave Austin, TX 78753 (512) 837-6020

Entry Date : 6/12/2013
Print Date: 6/12/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300

Canutec 613-996-6666



# **SECTION 2 HAZARD IDENTIFICATION**

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

#### **SECTION 3 MIXTURE COMPONENTS**

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
✓ Nitric Acid	i	CAS# 7697-37- 2	<0.5%	W/V	OSHA TWA 2 ppm (5mg/m $f$ ), STEL 4 ppm (10mg/m $f$ )
☐ Water, De Type II	eionized ASTM	CAS# 7732-18- 5	Balance	V/V	None Established

### SECTION 4 FIRST AID MEASURES

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. 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 symptoms persist, 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.

Nitric Acid

Fire / Explosion Hazards:

May react explosively with combutible 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.

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 🗸

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

1

Boiling Point:

~100°C

Evaporation Rate

Water =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.

Upper Flamm. Limit in Air

Not applicable

Flash Point:

odorless liquid

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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

Nitric Acid

SECTION 11	Toxicological Information
SECTION 12	Ecological Information
SECTION 13	Disposal Considerations
SECTION 14	Transport Information

DOT Classification:

Not Regulated

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

SECTION 15	Regulatory Information
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.

Flammability

Health Reactivity

Revisions	NFPA	
	0.1	

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