

911 Commerce Court \* Buffalo Grove \* Illinois 60089-2375 1-800-727-4368

MPORTANT

# **MATERIAL SAFETY DATA SHEET**

AD CAREFULLY SEFORE USING CHEMICAL 3HA requires that this form be kept on file. oduct No. C4306G

oduct Name NITRIC ACID, 69 - 70%

24 HOUR EMERGENCY ASSISTANCE CHEMTREC 800-424-9300 HAZARD RATING Health Hazard 3 4-EXTREME 3-SEVERE 2-MODERATE 1-SLIGHT 0-MINIMAL Flammability 0

Reactivity 3

May STACE BUILDING Chemical Azotic acid Synonyms Formula HNO<sub>3</sub> C.A.S. No. 7697 - 37 - 2

HOTHER THE STREET STREET	apilal mad		
rincipal Hazardous Component(s) 구 급으로움	%	P.E.L.	TLV Units
ACTION SAND TO SAND SAND SAND SAND SAND SAND SAND SAND	69-71	2 ppm	2 ppm
shaming in Birms & All San	1 1		l

alubility in Water	<u> </u>		
apor Density (Air=1)	No data	7	
apor Pressure (mm Hg)	49 - 55	Evaporation Rate ( =1)	No data.
oiling Point (°F)	248 - 252°F	Percent Volatile by Volume (%)	100%
lelting Point (*F)	-7.6 to -42°F	Specific Gravity (H <sub>2</sub> O=1)	1.37 - 1.42

olubilitv in Water Complete

Colorless to slightly yellow liquid; irritating, suffocating odor.

ash Point lethod Used)	None	Flammable Limits in Air	Lower	Upper
		% by Volume	N/A	N/A
ctinguisher edia	Not applicable.	9		

ppearance & Odor

Jse water to cool containers exposed to fire. Use water in flooding quantities as fog. Vear protective clothing and self-contained breathing apparatus if fighting fire.

### nusual Fire and Explosion Hazards

his material is non-combustible but may ignite or react with many substances, such s wood or wood-based products. Contact with most metals may produce flammable nd potentially explosive gases.

).T.	Nitric acid, 8, UN2031, PGII	
oved t	by U.S. Department of Labor "essentially similar" to form OSHA-20	

## Lievi dell'ali divita milita

#### eshold Limit Value

TWA: 2 ppm (5 mg/m³); STEL: 4 ppm (10 mg/m³)

Inhalation of nitric acid mist is severely irritating to the mucous membranes and respiratory tract, the effects of which may not show immediately after exposure. Signs exhibited after inhalation may include dryness in the throat and nose, cough, choking, chest pain and shortness of breath. Repeated inhalation at exposure levels greater than currently accepted limits may cause chronic bronchitis and/or chemical pneumonitis. Direct contact with the liquid is corrosive, producing immediate burns with skin destruction and possible ulceration. A yellow-brown discoloration may appear from contact with dilute and concentrated solutions. High mist concentrations may cause irritation of the skin and possibly burns. Direct contact with the eye will cause an immediate corrosive action with burns to the cornea and conjunctival epithelia. Permanent eye damage and impairment of vision may result. High mist concentrations may cause mild to severe eye irritation. Indestion may cause burns to the mouth, throat and stomach, and gastroenteritis with any or all of the following symptoms: Nausea, vomiting, letharov, diarrhea, bleeding or ulceration. and may be fatal. lethargy, diarrhea, bleeding or ulceration, and may be fatal.

#### **Emergency and First Aid Procedures**

Eyes: Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Skin: Immediately flush with water for at least 15 minutes. Affected clothing should be removed immediately and should be laundered before re-use. Ingestion: Immediately drink large quantities of water. Do not induce vomiting. Do not give anything by mouth if the person is unconscious. Inhalation:

Move to fresh air. If breathing is difficult, administrative or year. Call a physician. If breathing has stopped, artificial respiration should be given immediately. Call a physician.

Stability		Conditions to Avoid
Stable 🛚	Unstable 🖵	Heat and light.
Incompatib (Materials t		Reacts with a wide variety of metals (especially when powdered), bases, carbides, sulfides, fulminates, picrates, chlorates, oxidizable inorganic compounds, organic chemicals, turpentine, and combustible materials.
Hazardous Decomposition Products		Nitrogen oxides, hydrogen gas.
Hazardous P	olymerization	Conditions to Avoid
May Occur	Will Not Occur	N/A

## Steps to be Taken in Case Material is Released or Spilled

Remove all sources of Ignition. Stop source of spill if it may be done safely. Evacuate the immediate area. Vapors must be suppressed by the use of a water fog. All water must be contained and treated as a hazardous waste and/or neutralized. Neutralization may include the use

## Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. As a hazardous liquid waste, it must be disposed of in accordance with local, state and federal regulations in a permitted hazardous waste treatment, storage and disposal facility by treatment.

Respiration Protection (Specify Type)	NIOSH - approved respirator if any exposure occurs.				
Ventilation	Local Exhaust	Х		Special	
ventuation	Mechanical (General)			Other	*******
Protective Gloves	Neoprene glo	Neoprene gloves Eye Prote		ction	Goggles and faceshield
Other Protective Equipment	Lab coat. Eye wash and safety shower in work area.				

### Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool, dry, well-ventilated area. Do not store at temps above 38°C (100°F). Do not expose to direct

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#### Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals

Generates extreme heat when mixed with water. When mixing, add acid to water; never add water to acid.

Approved by	Steven C. Quandt	Effective Date	10/19/2000	For laboratory use only. Not for drug, food or household use. Keep out of reach of children.	