

## **MSDS - CONCENTRATED NITRIC ACID**

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name :Concentrated Nitric Acid

Chemical Formula : HNO3

CAS Number : 7697-37-2 UN No. : 2031

Synonyms : Aqua fortis, Azotic Acid General Use : Industrial chemicals

Manufacturer's Name : Deepak Fertilisers And Petrochemicals Corporation. Ltd.

Address: : Plot K-1, MIDC Indl Area, Taloja A.V., Dist: Raigad – 410 208

Telephone no. for info. : +91 - 022 - 50684000

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Composition : Nitric Acid 98% Hazardous components : Nitric Acid 48% ACGIH TLV : 2 ppm

## SECTION 3 - HAZARDS IDENTIFICATION

Primary Entry Routes

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Acute Effects	; Inhalation of vapours can cause breathing difficulties,severe exposure may lead to pneumonia and pulmonary edema. Ingestion can cause immediate pain & burns of mouth, throat and gastrointestinal tract,  Skin contact can cause redness,pain and skin burns.  Eye contact – vapours are irritating and may cause damage to eyes.	
Carcinogenicity	: Not listed as carcinogenic.	
Chronic Effects	: Long term exposures seldom occur due to corrosive properties of the acid, it may cause erosion of teach and lung damage.	
NFPA rating	: Health -3, Reactivity -0, Flammability- 0	
SECTION 4 - FIRST AID MESURES		
Eyes	: Immediately flush eyes with plenty of water for at least 15	

: Inhalation, skin, eyes and ingestion

	minutes, lifting lower and upper lids occasionally get medical attention immediately.
Skin	: Remove contaminated clothing and shoes, flush skin with plenty of water for at least 15 minutes, get medical attention immediately.
Inhalation	: Remove victim to fresh air. If not breathing give artificial respiration, If breathing is difficult, give oxygen and get medical

attention immediately

# SECTION 5 - FIRE FIGHTING MEASURES

Auto ignition temp.	; Not applicable.			
LEL	: Not applicable.			
UEL	: Not applicable.			
Flammability classifn.	: Not applicable.			
Extinguishing media	: It is not combustible,however,water spray may be used to keep			
Extinguishing media	fire exposed containers cool.			
Unusual fire or explosion	: It is not combustible but reacts with explosively with combustible			
Hazard	organic or readily oxidisable materials,react with most metal to			
	release hydrogen gas.			
	Telease Hydrogen gas.			
Hazardous combustion products	: Emits toxic nitrogen oxides fumes and hydrogen nitrate fumes			
l lazardous combustion products	and hydrogen nitrate when heated to decomposition.			
	Will react with water or steam to produce heat and toxic and			
	corrosive fumes.			
Fire fighting instructions	: Water spray may be used to keep fire exposed containers cool,			
	Ensure that water doesn't enter inside the containers.			
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SECTION 6 - ACCIDENTAL RELEASE MEASURES				
Small Spills	: Shut off leaks without risk, dilute with alkali and drench with			
	water.			
Clean Up	: Prevent spillage from entering drains or water sources.			
	Dilute with alkali and wash with water.			
SECTION 7 - HANDLING AND STO	DRAGE			
Handling Precautions				
	: Protect from physical damage.			
Storage Requirements	: Store in a cool dry ventilated storage area with acid resistance			
	floors. Keep away from heat, water and incompatible materials.			
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION				
Engineering Controls	: Provide proper ventilation so as to maintain environment below			
	air borne exposure limit.			
	: If exposure limit is exceeded,use respiratory protection.			
Respiratory Protection				
Respiratory Protection  Protective Clothing / Equipment	: Use full PVC Suit. PVC hand gloves and safety shoes.			
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Protective Clothing / Equipment  SECTION 9 - PHYSICAL AND CHEM	MICAL PROPERTIES			
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TLV as per ACIGH	; 2 ppm		
Acute - Inhalation	: Corrosive Inhalation of vapour can cause breathing difficulties, over		
SECTION 12 - ECOLOGICAL INFORMATION			
Environmental toxicity	: Ecotoxicity: Not available. : BOD5 and COD: Not available. :Products of Biodegradation: ;Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic. Special Remarks on the Products of Biodegradation: Not available		
SECTION 13 - DISPOSAL CONSIDERATIONS			
Disposal	: It may be disposed off by neutralizing with alkaline materials and water.		
SECTION - 14 - TRANSPORT INFORMATION			
Shipping Name Shipping Lables Hazard class UN Number	: Nitric Acid : Nitric Acid : 8 : 2031		
SECTION 15 - REGULATORY INFORMATION			
: Oxidizing, Corrosive Material			
SECTION 16 - OTHER INFORMATION			
Prepared by	Deepak Fertilisers and Petrochemicals Corporation Ltd.		
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