



DEEPAK FERTILISERS  
AND PETROCHEMICALS  
CORPORATION LIMITED

## MSDS - WNA

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name	: Weak Nitric Acid 58 %
Chemical Formula	: HNO <sub>3</sub>
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 - 67684000

### SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Composition	: Nitric Acid 60%
Hazardous components	: Nitric Acid
ACGIH TLV	: 2 ppm

### SECTION 3 - HAZARDS IDENTIFICATION

Primary Entry Routes	: Inhalation, skin, eyes and ingestion
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 teeth and lung damage.
NFPA rating	: Health -3, Reactivity -0, Flammability- 0

### SECTION 4 - FIRST AID MEASURES

Eyes	: Immediately flush eyes with plenty of water for at least 15 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

Flash point	: Not Flammable.
Flash point method	; Not applicable
Auto ignition temp.	; Not applicable.
L E L	: Not applicable.
U E L	: Not applicable.
Flammability classifn.	: Not applicable.
Extinguishing media	: It is not combustible,however,water spray may be used to keep fire exposed containers cool.
Unusual fire or explosion Hazard	: It is not combustible but reacts with explosively with combustible organic or readily oxidisable materials,react with most metal to release hydrogen gas.
Hazardous combustion products	: Emits toxic nitrogen oxides fumes and hydrogen nitrate fumes 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.

#### **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 STORAGE**

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.
Respiratory Protection	: If exposure limit is exceeded,use respiratory protection.
Protective Clothing / Equipment	: Use full PVC Suit, PVC hand gloves and safety shoes.

#### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	: Liquid
Appearance & Odour	: Colourless to light yellow liquid,Chocking odour.
Vapor Pressure	: 48 mmHg at 200C
Specific Gravity	: 1.36
Water Solubility	: Soluble
Freezing Point	: (-) 42 0C
Boiling Point	: 122 0C
Vapour density	: 2 - 3

#### **SECTION 10 - STABILITY AND REACTIVITY**

Stability	: Stable under ordinary condition.
Chemical incompatibilities	: It is powerful oxidizing agent and is incompatible with strong bases,metallic powder,carbides,hydrogen sulphide,turpentine and combustible organics.
Conditions to Avoid hazards Hazardous Decomposition product	: Light and heat.Emits toxic nitrogen oxides,fumes and hydrogen nitrate when heated to decomposition.

#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

TLV as per ACIGH	; 2 ppm
Acute - Inhalation	: Corrosive Inhalation of vapour can cause breathing difficulties, over
<b>SECTION 12 - ECOLOGICAL INFORMATION</b>	
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
<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>	
Disposal	: It may be disposed off by neutralizing with alkaline materials and water.
<b>SECTION - 14 - TRANSPORT INFORMATION</b>	
Shipping Name	: Nitric Acid
Shipping Lables	: DOT UN-No UN2031 Proper Shipping Name NITRIC ACID Hazard Class 8 Subsidiary Hazard Class 5.1 Packing Group II TDG UN-No UN2031 Proper Shipping Name NITRIC ACID Hazard Class 8 Subsidiary Hazard Class 5.1 Packing Group II IATA UN-No UN2031 Proper Shipping Name NITRIC ACID Hazard Class 8 Subsidiary Hazard Class 5.1 Packing Group II
<b>SECTION 15 - REGULATORY INFORMATION</b>	
: Oxidizing, Corrosive Material	
<b>SECTION 16 - OTHER INFORMATION</b>	
Prepared by	Deepak Fertilisers and Petrochemicals Corporation Ltd.
Disclaimer	This MSDS and the information it contains is offered to you in good faith as accurate. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individual and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents

Review No. & Date of Review	01-03-2021
Date of Next Review	01-03-2026