

## DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LIMITED

MSI	DS - STRONG NITRIC ACID (SNA)	
SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION		
Chemical Name	: Nitric Acid 68 -70 %	
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 68-70%	
Hazardous components	: Nitric Acid	
ACGIH TLV		
	: 2 ppm ,STEL - 4ppm (10.0mg/m3)	
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. Ingestior	
	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	
	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.	
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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		

Flammable Properties	: Not flammable by WHMIS criteria. Not flammable, but reacts with	
	most metals to form flammable hydrogen gas. Oxidizing agent, may cause spontaneous ignition of combustible materials.	
Suitable Extinguishing Media	: Use water on fires involving nitric acid to dilute and to absorb liberated oxides of nitrogen.	
Unsuitable Extinguishing Media	Do not use dry chemical powders containing sodium bicarbonate, potassium bicarbonate, sodium carbonate, calcium carbonate,	
	ammonium phosphate or ammonium sulfate. Nitric acid can react violently with these extinguishing agents.	
Specific Hazard Arising from the Chemical	: Container may explode in heat of fire.	
Protective Equipment for Firefighters	: Firefighters should wear full protective clothing including self contained breathing apparatus.	
Hazardous Combustion Products	: May include and are not limited to: Oxides of nitrogen. Toxic fumes.	
SECTION 6 - ACCIDENTAL RELEA	SE 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	: Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Keep away from combustible material. Use only with adequate ventilation. Keep container tightly closed. Wash thoroughly after handling.	
Storage Requirements	: Keep out of reach of children. Keep away from heat, open flames or other sources of ignition. Store in a tightly closed container in a cool, dry, well ventilated and dark place away from incompatible materials.	
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION		
Engineering Controls	: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.	
Eye Protection	: Chemical splash goggles.	
Hand Protection	: Impervious gloves. Confirm with reputable supplier first.	
Skin and Body Protection	: Use of an impervious apron is recommended.	
Respiratory Protection	: If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.	
General Hygiene Considerations	: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.	
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES		

Physical State	: Liquid	
Appearance & Odour	: Colourless to light yellow liquid, Chocking odour.	
Vapor Pressure	: 48 mmHg at 20°C	
Specific Gravity	: 1.36	
Water Solubility	: Soluble	
Freezing Point	: (-) 42 °C	
Boiling Point	: 84 °C	
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 Hazardou Decomposition product	s : 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	
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.	
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