



Safety Data Sheet

Product name: Deptacid NT
PO Box 46098
Minneapolis, MN 55401

Product Code: MI-5536

Telephone Numbers
During Normal Business hours call: 612-638-2100
Transportation Emergency Call Chemtrec: 800-424-9300

800-225-3832

Product use: This product is manufactured for commercial/industrial use.
Not recommended for household use.

Section 2 - Hazards Identification

GHS Ratings:

Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5

GHS Hazards

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

GHS Precautions

P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see Section 4 of the SDS or the First Aid section of the label)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P405	Store locked up
P501	Dispose of contents/container to appropriate waste site or reclaimer in accordance with local and national regulations

Signal Word: Danger



Section 3 - Composition

Chemical Name	CAS number	Weight Concentration %
Nitric acid	7697-37-2	45.00%
Phosphoric acid	7664-38-2	4.00%

Section 4 - First Aid Measures

Inhalation:

Remove from further exposure. For those providing assistance, avoid exposure to yourself. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, a trained individual should attempt to resuscitate while getting immediate medical aid.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes.

Skin Contact:

In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

Ingestion:

If conscious, give 2 to 3 glasses of water. Do not induce vomiting and seek medical attention immediately.

Notes to Physician:

No data found.

Section 5 - Fire Fighting Measures

Flash Point: N/A

LEL:

UEL:

Flammable Limits:

Flash Point: No data available.

Extinguishing Media:

Use extinguishing agent suitable for type of surrounding fire.

Unusual Fire or Explosion Hazards:

May cause or intensify fire; Oxidizer.

Hazardous Combustion Products:

See Section 10 for a list of hazardous decomposition products for this mixture.

Fire Fighting:

If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

Fire Fighting:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Stop leak if you can do it without risk, stay upwind, and avoid run off to waterways and sewers.

SMALL SPILLS: Prevent entry into waterways, sewers, basements or confined areas. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas. Dike to collect large liquid spills, collect leaking liquid in sealable compatible containers.

ACID SPILLS: Neutralize with Soda Ash, (Sodium Carbonate) Hydrated Lime, (Calcium Hydroxide) or Baking Soda (Sodium Bicarbonate).

Cautiously neutralize remainder. Then wash away with plenty of water.

Section 7 - Handling and Storage

Handling Precautions:

Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containment closed when not in use. Do not handle or store material near heat, sparks, or open flames, or other sources of ignition.

Storage:

Prevent from freezing. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C)

Regulatory Requirements:

No data found

Section 8 - Exposure Control and Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Nitric acid 7697-37-2	2 ppm TWA; 5 mg/m3 TWA	4 ppm STEL 2 ppm TWA	NIOSH: 2 ppm TWA; 5 mg/m3 TWA 4 ppm STEL; 10 mg/m3 STEL
Phosphoric acid 7664-38-2	1 mg/m3 TWA	3 mg/m3 STEL 1 mg/m3 TWA	NIOSH: 1 mg/m3 TWA 3 mg/m3 STEL

Engineering controls:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

Ventilation Control:

Provide adequate ventilation to control airborne concentration below the exposure guidelines/limits.

Administrative controls:

No data found.

Personal Protection:

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard Assessment of all workplaces to determine the need for proper protective equipment for each employee.

Eye Protection:

Normal industrial eye protection practices should be employed.

Skin Protection:

In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory:

If airborne concentration limits are not met, an approved respirator must be worn.

Contaminated Equipment:

Dispose of the waste in compliance with federal, state, regional, and local regulations.

Section 9 - Physical and Chemical Properties

<p>pH: Strong Acid <1</p> <p>Partition coefficient (n- Not Determined octanol/water):</p> <p>Boiling range: 83°C</p> <p>Evaporation rate: Not Determined</p> <p>Decomposition temperature: Not Determined</p> <p>Density: 1.31</p> <p>Freezing point: Not Determined</p> <p>Appearance Clear Colorless</p> <p>Physical State Liquid</p> <p>Odor threshold: Not Determined</p>	<p>Explosive Limits: N/A</p> <p>Autoignition temperature: N/A</p> <p>Flash point: 999°C, 999°F</p> <p>Flammability: Not Determined</p> <p>Viscosity: Not Determined</p> <p>Melting point: Not Determined</p> <p>Solubility: Complete</p> <p>Odor Acidic</p> <p>Vapor Pressure: Not Determined</p> <p>Vapor Density: Not Determined</p>
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Section 10 - Stability and Reactivity

Stability:

STABLE

Incompatibilities:

Avoid contact with strong bases.

Hazardous Decomposition Products:

Note: these are all possible decomposition products based on molecular structure of components.

Oxides of Nitrogen or Ammonia

Oxides of Phosphorus

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity

Inhalation Toxicity LC50: 149mg/L

Component Toxicity

7697-37-2 Nitric acid
Inhalation LC50: 67 ppm (Rat)

7664-38-2 Phosphoric acid
Oral LD50: 1,530 mg/kg (Rat) Dermal LD50: 2,730 mg/kg (Rabbit)

Routes of entry:

No data found.

Target Organs:

Eyes Skin Respiratory System

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			No data found.

Section 12 - Ecological Information

Ecotoxicity:

No data available for this product.

Component Ecotoxicity

Section 13 - Disposal

Disposal Instructions:

Refer to the latest federal, state, and local regulations regarding proper disposal.

Section 14 - Transportation Information

The following is for US DOT Highway transportation. Other modes/jurisdictions may have different classifications.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
US DOT	Corrosive Liquid Acidic Inorganic NOS. (Nitric Acid Phosphoric Acid)	UN3264	II	8

Section 15 - Regulatory Information

This listing is to highlight federal level regulation of the product. Individual states, and other nations may have further regulations not listed below.

US DOT List of Marine Pollutants (172.101 - Appendix B)

- None

US DOT List of Hazardous Substances and Reportable Quantities (172.101 Appendix A)

7697-37-2 Nitric acid 45 %

7664-38-2 Phosphoric acid 4 %

US DOT List of Severe Marine Pollutants (172.101 - Appendix B)

- None

SARA Section 302 Extremely Hazardous Substances (40 CFR 355):

7697-37-2 Nitric acid 45 %

Sara Section 302 Threshold Planning Quantity.

7697-37-2 Nitric acid 45 %

SARA Section 313, Toxic Chemicals (40 CFR 372.65):

7697-37-2 Nitric acid 45 %

SARA Reportable Quantity.

7697-37-2 Nitric acid 45 %

7664-38-2 Phosphoric acid 4 %

Country

Regulation

All Components Listed

Toxic Substances Control Act (TSCA):

All components are listed or exempt from the Toxic Substances Control Act except those listed below.

- None

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1985 (SARA):

This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.

7697-37-2 Nitric acid 45.0%

Section 16 - Other Information

Hazardous Material Information System (HMIS)

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	B

HMIS & NFPA Hazard Rating

Legend

* = Chronic Health Hazard

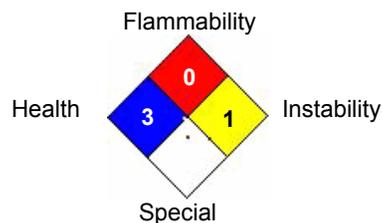
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

National Fire Protection Association (NFPA)



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Written by Thomas Grego

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