

222 Red School Lane Phillipsburg, N.J. 08865 24-Hour Emergency Telephone -- (201) 859-2151

> Chemtrec # (800) 424-9300 National Response Center # (800) 424-8802

87-7560

N3660 -01

Nitric Acid

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Effective: 10/01/85

Issued: 10/01/85 

SECTION I - PRODUCT IDENTIFICATION

Product Name:

Nitric Acid

Formula:

HNO.3

Formula Wt: CAS No. :

63.01 07697-37-2

Common Synonyms: Hydrogen Nitrate

NIOSH/RTECS No .: QU5775000

Product Codes:

4801,9605,9602,9598,9606,9601,5371,9597,9600,5113,9616

PRECAUTIONARY LABELLING

BAKER SAF-T-DATATM Sustem

FLAMMABILITY





Laboratory Protective Equipment









Precautionary Label Statements

POISON! DANGER!

STRONG OXIDIZER - CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE LIQUID AND VAPOR CAUSE SEVERE BURNS - MAY BE FATAL IF SWALLOWED HARMFUL IF INHALED AND MAY CAUSE DELAYED LUNG INJURY SPILLAGE MAY CAUSE FIRE OR LIBERATE DANGEROUS GAS

Keep from contact with clothing and other combustible materials. Do not store near combustible materials. Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling. In case of fire, flood with water. Flush spill area with water spray. 

SECTION II - HAZARDOUS COMPONENTS

Component

8

CAS No.

Nitric Acid

7697-37-2 65-75

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87-7560 87-7562 **MATERIAL** SAFETY DATA

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SECTION IX - STORAGE AND HANDLING PRECAUTIONS

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SAF-T-DATA TM Storage Color Code: Yellow

Special Precautions

Keep container tightly closed. Store separately and away from flammable

and combustible materials. 

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

Proper Shipping Name

Nitric acid (over 40%)

Hazard Class

Oxidizer

UN/NA

UN2031

Labels

OXIDIZER, CORROSIUE

Reportable Quantity

1000 LBS.

INTERNATIONAL (I.M.O.)

Proper Shipping Name

Nitric acid

Hazard Class

UN/NA

UN2031

Labels

CORROSIVE

N/A = Not Applicable or Not Available

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available.



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MATERIAL SAFETY DATA SHEET

N3660 -01 Page: 2 Nitric Acid Issued: 10/01/85 Effective: 10/01/85 SECTION III - PHYSICAL DATA Boiling Point: 120°C ( 248°F) Uapor Pressure(mmHq): 2.9 Melting Point: -42°C ( -44°F) Vapor Density(air=1): 2.5 Specific Gravity: 1.50 Evaporation Rate: NZÁ  $(H_2^0=1)$ (Butyl Acetate=1) Solubility(H<sub>2</sub>O): Complete (in all proportions) % Volatiles by Volume: 100 Appearance & Odor: Colorless liquid, with choking odor. SECTION IU - FIRE AND EXPLOSION HAZARD DATA Flash Point: N/A NFPA 204M Rating: 3-0-0 OXY Fire Extinguishing Media Use water spray. Special Fire-Fighting Procedures Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool. Unusual Fire & Explosion Hazards Strong oxidizer. Contact with other material may cause fire. Toxic Gases Produced nitrogen oxides SECTION U - HEALTH HAZARD DATA Threshold Limit Value (TLV/TWA): 5 mq/m<sup>3</sup> (2) DDm) Short-Term Exposure Limit (STEL): 10 mg/m<sup>3</sup> (4 Effects of Overexposure Liquid may cause severe burns to skin and eyes. Inhalation of vapors may cause severe irritation of the respiratory system. Inhalation of vapors may cause coughing, chest pains, difficulty breathing, or unconsciousness. Ingestion may be fatal.

Emergency and First Aid Procedures



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SECTION U - HEALTH HAZARD DATA (Continued)

If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen.

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

SECTION UI - REACTIUITY DATA

Stability: Stable Hazardous Polymerization: Will not occur

Conditions to Avoid: heat, light

Incompatibles: strong bases, combustible materials,

strong reducing agents

Decomposition Products: oxides of nitrogen

SECTION VII - SPILL AND DISPOSAL PROCEDURES

Steps to be taken in the event of a spill or discharge

Wear self-contained breathing apparatus and full protective clothing. Stop leak if you can do so without risk. Ventilate area. Neutralize spill with soda ash or lime. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

J. T. Baker Neutrasorb  $^{R}$  or Neutrasol  $^{R}$  "Low Na+" acid neutralizers are recommended for spills of this product.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: D002, D003 (Corrosive, Reactive Waste)

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use general or local exhaust ventilation to meet

TLU requirements.

Respiratory Protection: Respiratory protection required if airborne

concentration exceeds TLV. At concentrations up to 100 ppm, a chemical cartridge respirator with acid cartridge is recommended. Above this level, a self-contained breathing apparatus is advised.

Eye/Skin Protection: Safety goggles and face shield, uniform,

protective suit, acid-resistant gloves are

recommended.

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