

BACHARACH, INC. MSDS

NITRIC ACID, 30%

MSDS NO: 4099-1458

ACUTE HEALTH HAZARDS:

EYE CONTACT: May cause severe burns with corneal ulceration and possible blindness.

SKIN CONTACT: May cause severe burns with necrosis and scarring.

INHALATION: May cause irritation of the nose, throat and respiratory tract. High concentrations may produce bloody nasal secretions and pulmonary edema.

INGESTION: May cause burns to the gastrointestinal tract, nausea, vomiting, diarrhea and may be fatal.

CHRONIC HEALTH EFFECTS: Repeated exposure to the mist may cause inflammation of the upper respiratory tract and etching of the dental enamel.

CARCINOGEN STATUS: This material is not listed as a carcinogen or suspect carcinogen by IARC, NTP or OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing respiratory disorders may be at increased risk from exposure.

SEE SECTION 11 - TOXICOLOGICAL INFORMATION FOR ADDITIONAL DATA
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SECTION 4: FIRST AID

EYE CONTACT: Flush thoroughly with copious amounts of running water for 20 minutes, lifting the lids occasionally. Get immediate medical attention.

SKIN CONTACT: Flush thoroughly with water for 20 minutes. Remove contaminated clothing and launder before re-use. Get medical attention.

INHALATION: Remove victim to fresh air and give artificial respiration if needed. Get immediate medical attention.

INGESTION: Never give anything by mouth to an unconscious or convulsing person. Immediately give the victim 1 to 2 glasses of water or milk to drink. Do not induce vomiting. Get immediate medical attention.
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SECTION 5: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A TEST METHOD: N/A
AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: This material is not combustible. Use any media that is appropriate for the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear NIOSH approved positive

N/D=Not Determined

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N/A=Not Applicable

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pressure self contained breathing apparatus and full protective clothing. Use water to keep exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Reacts with metals to form flammable hydrogen gas.

HAZARDOUS COMBUSTION PRODUCTS: Toxic oxides of nitrogen.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

Wear suitable protective equipment. Keep combustible and flammable materials away from spill area. Absorb with sand, earth or other non-combustible absorbent. Wash residual traces with water.
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SECTION 7: HANDLING AND STORAGE

WORK PRACTICES: Prevent contact with the eyes, skin & clothing. Wear recommended protective clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. When diluting, always add acid to water while stirring. Never add water to acid.

SPECIAL PRECAUTIONS: Oxidizer! Keep away from flammables and other incompatible materials. Keep container closed when not in use. Empty containers retain residues and may be hazardous-follow all precautions when handling.

STORAGE: Store in a well ventilated area, away from alkalis, flammables and combustibles. Keep container tightly closed. Do not store on wooden floors.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use general or local exhaust ventilation as needed to maintain concentration below the TLV.

RESPIRATORY PROTECTION: If the concentration exceeds the exposure limits, use an approved full facepiece acid gas respirator. At concentrations above 10 times the TLV, an approved supplied air or self-contained respirator may be required.

GLOVES: Impervious such as rubber or neoprene.

EYE PROTECTION: Chemical safety goggles and face shield recommended. Do not wear contact lenses.

OTHER PROTECTIVE EQUIPMENT: Protective apron or coveralls. Safety shower and eye wash in the work area.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Colorless liquid with a choking, acrid odor. No data available.

pH: <1 SPECIFIC GRAVITY: 1.1
BOILING POINT: Approx. 187 F VAPOR PRESSURE: 5.5 mmHG @ 20 C
MELTING POINT: Not available VAPOR DENSITY: 1.58
SOLUBILITY IN WATER: Complete PERCENT VOLATILE: 100%
COEFFICIENT WATER/OIL: N/A

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Avoid excessive heat.

INCOMPATIBILITY: Alkalis, oxidizable materials, flammable and combustible materials, metals, reducing agents, cyanides, amines, alcohols. Avoid all materials whose compatibility has not been established.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may release toxic oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: N/A

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA: The LC50 is reported to be 244 ppm/30 min. in rats.

IRRITANCY DATA: This material is corrosive to all tissues.

SENSITIZATION: This material has not been reported to cause sensitization in animals or humans.

REPRODUCTIVE TOXICITY: This material has not been reported to cause reproductive toxicity in laboratory animals or humans.

TERATOGENICITY: This material not been reported to cause teratogenic effects in laboratory animals or humans.

MUTAGENICITY: This product has not been found to be mutagenic.

SYNERGISTIC EFFECTS: There are no chemicals known to cause any additive adverse health effects.

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SECTION 12: ECOLOGICAL INFORMATION

The ecological effects of this product have not been evaluated.

SECTION 13: DISPOSAL

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

RCRA HAZARDOUS WASTE CODES: D002

SECTION 14: TRANSPORTATION DATA

US DOT SHIPPING NAME: NITRIC ACID SOLUTION (30% NITRIC ACID), 8, UN 2031, PG II

DOT LABELS REQUIRED: CORROSIVE

EMERGENCY RESPONSE GUIDE NUMBER: 157

IATA SHIPPING NAME: NITRIC ACID SOLUTION, 8, UN 2031, PG II

IATA LABELS REQUIRED: CORROSIVE (CARGO AIRCRAFT ONLY, UP TO 30 LITERS)

SECTION 15: OTHER REGULATORY INFORMATION

SARA 311/312: Hazard Categories for SARA Section 311/312 Reporting:

Acute health, chronic health, fire hazard.

SARA 313: This product contains the following chemicals subject to Annual Release

Reporting Requirements under SARA Section 313 (40 CFR 372):

Nitric acid 30%

CERCLA SECTION 103 REPORTABLE QUANTITY: 3333 lbs (Nitric acid - 1000 lbs)

CALIFORNIA PROPOSITION 65: This product contains the following substances known to the State of California to cause Cancer and/or Reproductive Harm: None

US TOXIC SUBSTANCES CONTROL ACT: All of the components of this product are listed on the EPA TSCA Inventory.

EUROPEAN INVENTORY OF COMMERCIAL CHEMICAL SUBSTANCES: All of the components of this product are listed on the EINECS Inventory.

JAPAN MITI: All of the components of this product are existing chemical substances as defined in the Chemical Substance Control Law.

CANADIAN ENVIRONMENTAL PROTECTION ACT: All of the components of this product are listed on the Canadian Domestic Substances List.

CANADIAN WHMIS CLASSIFICATION: Class C - Oxidizing Material; Class E - Corrosive Material.

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EUROPEAN COMMUNITY LABELING CLASSIFICATION: Oxidizing, Corrosive

EUROPEAN COMMUNITY RISK AND SAFETY PHRASES: R35, R8, S17, S23, S26, S36/37/39, S45
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SECTION 16: OTHER INFORMATION

NFPA HAZARD RATING: HEALTH: 3 FIRE: 0 REACTIVITY: 1

DATE OF LATEST MSDS REVISION: 03-12-97

REVISION SUMMARY: Revised Section 15, R&S Phrases, Revised Transportation (ERG#),
Section 14.
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The preceding information is believed to be correct and current as of the date of preparation of this Material Safety Data Sheet. Since the use of this information and the conditions of use of the product are not within the control of Bacharach, Inc., it is the users obligation to assure safe use of this product.