

M S D S

Material Safety Data Sheet



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Nitric Acid, Concentrated, 70%

SECTION 1 PRODUCT IDENTIFICATION

NAME: Nitric Acid, Concentrated, 70%
EKI ORDER NUMBER: 6205
SYNONYMS: N/I
CAS NO: 7697-37-2
FORMULA: HNO_3
REVISION DATE: April 26, 2004

****LABEL HAZARD STATEMENT AND PRECAUTIONS****

DANGER! POISON! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. LIQUID AND MIST CAUSE SEVERE BURNS. MAY BE FATAL IF SWALLOWED OR INHALED. Do not get in eyes, on skin, on clothing. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Keep from contact with combustible materials. Wash thoroughly after handling.

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

INGREDIENT/CAS NO	OSHA PEL	ACGIH TLV
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Nitric Acid/7697-37-2	2ppm TWA	2ppm TWA 4ppm STEL

Nitric Acid, ~70%, is subject to the reporting requirements of SARA 313 and 40CFR372.

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: Miscible	BOILING POINT (C): 122
VAPOR PRESSURE (mm Hg): 48	VAPOR DENSITY: 2-3
SPECIFIC GRAVITY: 1.41	MELTING POINT (C): -42
EVAPORATION RATE: N/I	
APPEARANCE AND ODOR: Clear, colorless to yellowish liquid. Acrid odor.	

SECTION 4 FIRE / EXPLOSION HAZARD DATA

FLASH POINT (C): Not combustible
AUTOIGNITION TEMPERATURE (C): Does not apply
FLAMMABLE LIMITS (%) UEL: Does not apply LEL: Does not apply
EXTINGUISHING MEDIA: Suitable for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus with full face piece operated in pressure-demand or other positive-pressure mode.
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/I

SECTION 5 REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Light, excessive heat.

MATERIALS TO AVOID: Most substances, especially strong bases, combustibles.

HAZARDOUS DECOMPOSITION PRODUCTS: NO_x, Hydrogen Nitrate.

HAZARDOUS POLYMERIZATION: Does not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE:

INHALATION: Respiratory tract irritation, breathing difficulties, pneumonia, pulmonary edema.

SKIN CONTACT: Causes burns.

EYE CONTACT: vapors cause irritation, may cause eye damage. Liquid may cause severe burns and permanent damage.

SKIN ABSORPTION: N/I

INGESTION: Causes immediate burns to mouth, throat, esophagus and G.I. tract.

CHRONIC: Tooth and lung damage.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin disorders, eye disease, cardiopulmonary diseases.

CARCINOGENICITY: None

****FIRST AID PROCEDURES****

*****GET IMMEDIATE MEDICAL ATTENTION*****

EYE CONTACT: immediately flush with plenty of water for at least 15 minutes, separating eyelids occasionally.

SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes while removing contaminated garments.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: Do NOT induce vomiting. If conscious, give large quantities of water or milk to drink.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Ventilate area. Neutralize with soda ash, absorb with inert material and containerize for disposal.

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.

STORAGE: Store tightly closed at 15-30C, away from incompatible materials.

SECTION 8 CONTROL MEASURES

VENTILATION: Local preferred.

RESPIRATORY PROTECTION: Full-face piece positive pressure respirator or breathing apparatus, if required.

EYE PROTECTION: Chemical splash safety goggles and/or full face shield.

SKIN PROTECTION: Gloves, lab coat and impervious apron.

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