

MATERIAL SAFETY DATA SHEET

PRODUCT: Gold & Platinum Testing Acid

-----EMERGENCY ASSISTANCE-----

FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL - CHEMTREC
(800)424-9300

-----PRODUCT IDENTIFICATION-----

PRODUCT NAME: Main Components: Nitric Acid, Hydrochloric Acid
(Muriatic Acid)

COMMON NAMES/ SYNONYMS:

MSDS#: PI189

FORMULA: HNO_3 , HCl

DATE ISSUED: 10/91

MOLECULAR WEIGHT: HNO_3 : 63
 HCl : 36.5

SUPERSEDES: 05/91

Swallowed: If conscious and free of convulsions, give large amounts of water. Do not induce vomiting. Give a non-gassing neutralizer such as milk of magnesia. Do not give carbonates bicarbonates, chalk. Get prompt medical help.

SUSPECTED CANCER AGENT?

☒ NO: This product's ingredients are not found in the list below.

YES: ☐ Federal OSHA ☐ NTP ☐ IARC

California employers using Cal/OSHA - regulated carcinogens must register with CAL/OSHA. The Cal/OSHA and Federal OSHA carcinogen list are similar.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

-----REACTIVITY DATA-----

Stability: ☒ Stable ☐ Unstable

Condition to avoid:

Incompatibility (material to avoid): Most metals. Alkalis, metallic oxides, amines, esters and certain other organics: propiolactone (beta), propylene oxide (ibid); cause exothermic reactions. Carbonates cyanides, sulfides yield toxic gases.

Hazardous decomposition products (including combustion products):

Hydrogen chloride vapors released at ambient, but in increasing amounts at higher temperatures.

Hazardous polymerization:

Conditions to avoid.:

-----SPILL, LEAK, ETC.-----

Spill response procedures (include employee protection measures): Dilute 1, eaks with water. Neutralize residue with soda ash lime or limestone. Adequate ventilation is required due to release of carbon dioxide gas. For major spills keep people without protective equipment away. Contain the acid by diking the spill with soil.

Preparing wastes for disposal (container types, neutralization, etc.)

Waste should be cautiously diluted with water and neutralized with alkali. Neutralized waste should be disposed of in accordance with applicable disposal regulations.

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

-----FIRE AND EXPLOSION-----

Flash Point, F (give method) nonflammable

Auto ignition temperature, F NA

Flammable limits in air, volume % : NA

(LEL)____ upper(UEL)____

Fire extinguishing materials:

XX water spray _____ carbon dioxide
_____ foam _____ dry chemical

other: _____

Special firefighting procedures: wear self contained breathing apparatus with full protective clothing.

Unusual fire and explosion hazards: Flammable and potentially explosive hydrogen metal is generated from reaction with most metals.

-----HEALTH HAZARD INFORMATION-----

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure.

Inhaled: choking, coughing, headache, dizziness

Contact with skin or eyes: Irritation or burns

Absorbed through skin: Irritation or burns

Swallowed:

HEALTH EFFECTS OR RISKS FROM EXPOSURE. Explain in lay terms. Attach extra page if more space is needed.

Acute: Lung irritation and pulmonary edema.

Chronic: Gastritis and bronchitis have been reported.

FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Immediately flush with water, continuing for 20 to 30 minutes. Get medical help. Speed is essential.

Skin Contact: Immediately flush with water for at least 15 minutes and removing contaminated clothing. Get medical help.

Inhaled: Promptly remove to fresh air. If breathing has stopped, give artificial respiration. Get PROMPT medical help.

-----SPECIAL HANDLING INFORMATION-----

Ventilations and engineering controls: Sufficient to reduce acid mist and hydrogen chloride gas to current permissible levels.

Respiratory protection (type): use a respirator approved by NIOSH for nitric acid and hydrochloric acid.

Eye protection (type): Wear safety goggles.

Gloves (specify material): Wear acid resistant (e.g., nitrile or latex) gloves.

Other clothing and equipment:

Work practices, hygienic practices:

Other handling and storage requirements:

Protective measures during maintenance of contaminated equipment: