

SKU: 80-089

1. Product Identification

Product Identifier Gold Investment Remover

Other means of identification

SDS Number 10000023

Chlorohydric acid, hydrogen chloride, marlactic acid Synonyms

Acid, steel, oil & gas, ore & mineral, food processing, pharmaceutical, organic chemical Recommended Use

synthesis

None Known. Recommended restrictions

Company Information

Romanoff International Supply Corp. Address

9 Deforest Street Amityville, NY 11701

Phone: 631-842-2400

Emergency Contact: CHEMTEL ACCOUNT: #MIS4594445

USA, CANADA, PUERTO RICO & US VIRGIN ISLANDS: 1-800-255-3924

AUSTRALIA: 1-300-954-583 BRAZIL: 0-800-591-6042 CHINA: 400-120-0751 INDIA: 000-800-100-4086 MEXICO: 800-099-0731 ALL OTHER COUNTRIES: 1-813-248-0585

2. Hazards identification

Category 1 Physical hazards Corrosive to metals Acute toxicity, oral Category 4 Health hazards Category 1 Skin corrosive irritation

Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract infection

OSHA Flements Not classified.

Label Elements

Signal Word Danger

Label elements May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye

damage. May cause respiratory irritation

Precautionary Statement Wear protective gloves/protective clothing/eye protection/face protection.

Do not eat, drink or smoke when using this product.

Prevention Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area.

Wash thoroughly after handling. Keep in original container

If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh Response

> air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked-up. Disposal

Dispose of contents/container in accordance with local/regional/national/

international regulations.

Hazard(s) not otherwise

Classified (HNOC)

None known.

Supplemental information Not applicable.



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3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%
Ammonium Bifluoride	1241-49-7	6-8
Hydrochloric acid	7647-01-0	8-20

4. First- aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a physician or poison control center immediately

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with Skin contact

> plenty of water for at least 15-20 minutes. Get medical attention IMMEDIATELY. Call a physician or poison control center immediately.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove Eye contact

contact lenses, if present and east to do/ Continue rinsing. Call a physician or

poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth thoroughly.

Do not induce vomiting. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs.

Contact with this material will cause burns to the skin, eyes and mucous Most important

membranes.

Symptoms/effects, acute and

delayed

Indication of immediate

medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Symptoms

may be delayed.

Ensure that medical personnel are aware of the materials(s) involved and take

precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash

contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Dry chemical. Foam. Carbon dioxide (CO2).

Unstable extinguishing media Water. Do not use water jet as an extinguisher, as this will spead the fire.

Specific hazards arising from During fire, gases hazardous to health may be formed.

the chemical

Special protective equipment and

precautions for firefighters

Fire fighting

equipment/instructions

General fire hazards

Self-contained breathing apparatus and full protective clothing must be worn

in case of fire.

In case of fire and/or explosion do not breathe fumes. Use standard firefighting

procedures and consider the hazzards of other involved materials.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.



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Methods and materials for containment and cleaing up

Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermioulite, dry sand or earth and place into containers. Deactivation materials inclue lime, limestone, sodium carbonate (soda ash), sodium bicarbonate, and dilute sodium hydroxicde. Present entry into waterways, sewer, basements or confined areas.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean suface

thoroughly to remove residual contamination.

Never return spills in orginal containers for re-use. For waste disposal, see

Section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Wear appropriate personal protective equipment. Do not get in eyes, on skin,

on clothing. Do not breathe mist or vapor. Observe good industrial hygine ractices. Do not empty into drains. Use caution when combining with water; DO NOT add water to acid. ALWAYS add acid to water while stirring t prevent

release of heat, steam and fumes.

Environmental precautions Store in a well-ventilated place. Store away from incompatible materials. Store

in containers specially designed for this product and strength. Keep away from

Value

heat, sparks and open slames

8. Exposure controls/personal protection

Occupational exposure limits

US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	туре	value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
US, ACGH Threshold Limit Values			
Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm	
U8, NIOSH: pocket Guide to Chemica	al Hazards		
Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	

Biological limit values No biological exposure limits noted for the ingredient(s)

Appropriate engineering

controls

Good general ventilation (typical 10 air hangars per hour) should be used. Ventilation values should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shield (or goggles). Face-shield. Wear a full-face

respirator, if need.



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Skin protection

Hand protection Chemical resistant gloves.

Other Wear appropriate chemical resistant clothing.

When workers are facing concentrations above the exposure limit they must Respiratory protection

> use appropriate certified resprirators. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may

not provide adiquate protection.

Thermal hazards Wear appropriate thermal protective clothing when necessary

General hygiene Do not get this material on clothing. Keep away from food and drink. Always considerations

observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contamninats.

9. Physical an chemical properties

Appearance

Physical state Liquid Form Liquid

Color Clear. Colorless.

Odor Pungent Odor threshold Not available рΗ <1 (at 25°C)

For product range of concentrations: -71°F (-57.22°C) to -17°F (-27°C) Melting point/freezing point Initial boiling point and boiling For product range of concentrations: 226°F (107.78°C) to 127°F (53°C)

range

Flash Point Not applicable

Evaporation rate 1 (Approximately, water = 1)

Flammability (soild, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available. Flammability limit - upper (%) Not available. Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

Vapor pressure For product range of concentrations: 0.01 mmHg to 200 mmHg @68°F (20°C)

Vapor density **Approximate**

Relative density For product range of concentrations; 1.102 g/cm3 to 1.188 g/

Solubility(ies)

Completely soluble Solubility(water)

Partition coefficient Not available.

(n-octano/water)

Not available. Auto-ignition temperature Not available. Decomposition temperature Viscosity Not available.

Other information

Bulk density Not available. Molecular weight 36.46 g/mol



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10. Stability and Reactivity

Reactivity The product is stable and non-reactive under normal conditions of use,

storage and transport

Chemical stability Material is stable under normal conditions.

Possiblity of hazerdos reactions Hazardous polymerization does not occur.

Conditions to avoid Contact with metal may release flammable hydrogen gas. Contact

with imcompatible materials. Do not mix with other chemicals.

Incompatible materials Incompatible with bases. Amines. Acid anhydridas. Metals. Organic compounds.

Hazard decomposition products Hydrogen chloride

11. Toxicological Information

Information on likely routes of exposure

Inhalation Vapors and mist will irritate throat and respiratory system and cause coughing.

Skin contact Causes skin burns.

Eye contact Causes eye burns.

Ingestion Harmful if swallowed. Causes digestive tract burns. Ingestion may produce burns to

the lips, oral cavity, upper airway, espphagus and possibly the digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics

Contact with this material will cause burns to the skin, eyes and mucuous membranes. Permanent eye damage including blindness could result.

Information on toxilogical effects

Acute toxicity Harmful if swallowed.

Components	Species	Test Results	
Hydrochloric acid (CAS 7647-01-0)			
Acute			
LC50	Rat	3124 mg/, 1 Hours	
Acute			
LC50	Rabbit	900 mg/kg	
Skin crrosion/irritation	Causes severe skin burns and eye damage.		

Causes severe skill bullis and eye damage

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization This product is not expected to cause respiratory sensitization.

skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than

0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARG, ACGIH, NTP or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrochloroic acid (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed



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OSHA Specifically Regulated Substances (29 CFR 1910.10001-1050)

Not listed

Reproductive toxcicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity.

May cause respiratory irritation.

Single exposure

Specific target organ toxicity . Not classified.

Repeated exposure

Aspiration hazard Not classified.

Chronic effects Prolonged inhalations may be harmful.

12. Ecological information

Information on likely routes of exposure

Ecotoxicity Because of the low pH of this product, it would be expected to produce significant

ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Components Species Test Results

Hydrochloric acid (CAS 7647-01-0)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinls)

Persistence and degradability No data is available on the degradability of this product.

Bioaccummulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal

site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national.

international regulations.

Local disposal regulations Dispose in accordance with all regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the

producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed

of in a safe manner (see: Disposal instructions)

Contaminated packaging Empty containers should be taken to an approved waste handling site for

recycling or disposal. Since emptied containers may retain product residue,

follow label warnings even after containers are emptied.

14. Transport information

DOT

UN Number UN 1760

UN proper shipping name Corrosive acid liquids, N.O.S



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Transport hazard class(es)

Class 8 Subsidiary risk 9 Label(s) Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

A3, A6, B15, IB2, N41, T6, TP2, TP12 Special provisions

Packaging exceptions 154 202 Packaging non-bulk Packaging bulk 242

IATA

UN number UN 1760

UN proper shipping name Corrosive acid liquids, N.O.S

Transport hazard class(es)

Class 8

Subsidiary risk Packing group Ш Environmental hazards No. **ERG Code** 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN 1760

UN proper shipping name Corrosive acid liquids, N.O.S

Transport hazard class(es)

Class 8 Subsidiary risk Packing group Ш Environmental hazards No. **EmS** F-A, S-B

Transport in bul according to

Annex II of MARPOL 73/78 and

Special precautions for user

the ISC Code

Not available.

15. Regulatory information information

US federal regulation This product is a "hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200

CERCLA Hazardous Substances: Hydrochloric acid, CAS# 7647-01-0. RQ = 5000 lbs

Read safety instructions, SDS and emergency procedures before handling.

TSCA Section 12(b) Export Notification (40 CFR 1910.1001-1050)

Not regulated.



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CERCLA Hazardous Substance List (40 CFR 302.4)

Hydrocloric acid (CAS 7647-01-0)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes

SARA 302 Extremely hazardous substance

Chemicial name	CAS Number	Reportable quantity (Pounds)	Threshold planning quantity lower value (Pounds)	Threshold planning quantity upper value (Pounds)
Hydrochloric acid	7647-01-0	5000	500	
SARA 311/312 Hazar chemical	dous Yes			
Chemical Name		CAS number	% By wt.	
Hydrochloric acid		7647-01-0	7647-01-0	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Hydrochloric acid (CAS 7647-01-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Hydrochloric acid (CAS 7647-01-0)

Safe Drinking Water Act

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and

Chemical Code Number

Hydrochloric acid (CAS 7647-01-0) 20 %WV

DEA Exempt Chemical Mixtures Code Number

Hydrochloric acid (CAS 7647-01-0) 6545

US state regulations

US. Massachusette RTK - Substance List

Hydrochloric acid (CAS 7647-01-0)

US. New Jersey Worker and Community Right-to-Know Act

Hydrochloric acid (CAS 7647-01-0)

US. Rhode Island RTK

Hydrochloric acid (CAS 7647-01-0)

US. California Proposition 66

This product is not listed, but it may contain elements known to the State of California to cause cancer or reproductive toxicity as listed under Propsition 65 Safe Drinking Water and Toxic Enforcement Act. For additional information contact Olin Technical Services (800-299-6546)



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International Inventories

Country(s) or region Inventory name On inventory (yes/no) Australia Australian of Chemical Substances (AICS) Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No China Inventory of Existing Chemical Substances in China Yes Europe European Inventory of Existing Commercial Chemical Yes

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) No Europe Inventory of Existing and New Chemical Substances (ENCS) Yes Japan Korea Existing Chemicals List (ECL) Yes

New Zealand New Zealand Inventory Yes **Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes United States & Puerto Rico Toxic Substances Control Act (TSCA Inventory Yes

16. Other information, Including date of preparation of last revision

International Inventories

Issue date 25-September-2014 Revision date 05-August-2015

Version # 02

HMIS® ratings Health: 3

Flammability: 0

Physical hazard: 0

List of abbreviations

LD50: Lethal Dose, 50%

EC50: Effective concentration, 50% TWA: Time weighted average.

References EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC Monographs. Overall Evaluation of Carcinogenicity

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer This information is provided without warranty. The information is believed to be correcct.

This information should be used to make an independent determination of the methods

to safeguard workers and the environment.

[&]quot;*A "Yes" indicates the product complies with the Invantory reuirements administred by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).