SAFETY DATA SHEET

1) PRODUCT AND COMPANY IDENTIFICATION:

Product Name: Nitric Acid 38%

Manufacturer:
Acid Products Company Inc.
600 West 41st Street
Chicago, IL 60609
For More Information Call:
(773) 254 5222
(Monday - Friday 8:00 4:30)

24 Hour Transportation Related Emergencies:
CHEMTREC:(800) 424 9300
Account No.: CCN223

2) HAZARD IDENTIFICATION:

This material is considered hazardous by OSHA 29 CFR 1910.1200 Hazard Communication Standard GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Signal Word:

Danger

Pictogram:

Oral Toxicity	4	Oral>300+<=2000mg/kg
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1-hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

GHS HAZARDS:
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H330 Harmful if inhaled

GHS PRECAUTIONS:

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P260 Do not breathe dust/fume/gas/mist/vapor's/spray
P264 Wash thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P310 Immediately call a POISON CENTER or doctor/physician
P363 Wash contaminated clothing before reuse

P301+P330+P331	IF SWALLOWED:	Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair):	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED:	Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES:	Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P405 Store locked up
P501 Dispose of contents/container according to local, state, and Federal regulations.

3) COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredient Name	CAS Number	% wt. or % vol.
Nitric Acid	7697 37 2	≥ 38.00
Water	7732 18 5	Balance

4) FIRST-AID MEASURES

INHALATION:
Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection if breathing is difficult, oxygen may be provided by trained personnel. If breathing has stopped, assist ventilation with a mechanical device or use mouth to mouth resuscitation with pocket mask. Seek medical attention immediately.

EYE CONTACT:
Rinse eyes with water. Remove any contact lenses and continue flushing eyes with running water for at least 20-30 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention immediately

SKIN CONTACT:
Wash with soap and water flush with water for at least 20 minutes. Seek medical attention immediately

INGESTION:
Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Seek medical attention immediately

5) FIRE-FIGHTING MEASURES:

FLASH POINT:
N/A

EXTINGUISHING MEDIA:
Does not burn. Use extinguishing media appropriate for surrounding fire.

PROTECTIVE MEASURES:
Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

UNUSUAL FIRE OR EXPLOSION HAZARDS:
May decompose upon heating to produce corrosive and/or toxic fumes

HAZARDOUS COMBUSTION PRODUCTS:
May give off poisonous oxides of nitrogen & acid fumes when heated in fires.

FIRE-FIGHTING INSTRUCTIONS:
Fire fighters and others who may be exposed to products of combustion should wear self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent). Approach fire from upwind to avoid hazardous vapors & toxic decomposition products. Use flooding quantities of water as spray or fog. Use water spray to keep fire exposed containers cool. Extinguish fire using agent suitable for surrounding fire.

.6) ACCIDENTAL RELEASE MEASURES:

No action shall be taken involving any personal risk or without suitable training.
Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk-through spilled material. Put on appropriate personal protective equipment. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Self- contained breathing apparatus (SCBA) should be used to avoid inhalation of the product.

Small Spill:
Put on appropriate personal protective equipment (see Section 8). Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Neutralize acids by applying basic substances (soda bicarbonate) or use an acid spill kit. Dispose of via a licensed waste disposal contractor.

Large Spill
Put on appropriate personal protective equipment (see Section 8). Approach release from upwind. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Absorb spillage to prevent material damage. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local, state, and Federal regulations. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. The spilled material may be neutralized with sodium bicarbonate, soda ash or lime. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor

7) HANDLING AND STORAGE:

HANDLING PRECAUTIONS:

Eating, drinking, and smoking should be prohibited in areas where this material is used or stored. Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation.
Wear appropriate respirator when ventilation is inadequate. Keep away from clothing, incompatible materials and combustible materials. Keep away from alkalis. Keep away from heat. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

STORAGE REQUIREMENTS:

Store in original container, protect from direct sunlight, in a dry, cool well ventilated area away from incompatible materials, food and drink. Store locked up.

8) EXPOSURE CONTROLS / PERSONAL PROTECTION:

CAS #	OSHA Exposure Limits	ACIGH Exposure Limits	Other Exposure Limits
7697 37 2	2 ppm; 5 mg/m^3 TWA	4 ppm STEL 2 ppm TWA	25 ppm IDLH 4 ppm; 10 mg/m^3 STEL 2 ppm; 5 mg/m^3 TWA

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration, and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and at the end of the working day. Wash contaminated clothing before reusing.

RESPIRATORY PROTECTION:

If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists. (Suggest full-face respirator with acid gas cartridges when ventilation is not adequate)

EYE/FACE PROTECTION:

Wear appropriate safety glasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Full face respirator is suggested. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance; this is irrespective of the recommendation involving the wearing of eye protection.

SKIN PROTECTION:

Wear chemical resistant clothing and gloves. (Neoprene)

9) PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Liquid
Appearance and Odor:	Pungent
Odor Threshold:	No data available
Vapor Pressure:	No data available
Vapor Density:	2.17(Air=1)
Specific Gravity:	1.150 to 1.180
pH:	(1% sol) < 2
Flash Point:	No data available
Flash Point Method:	No data available
Burning Rate:	No data available
Flammability Classification:	
Water Solubility:	Easily soluble in hot and cold water
Boiling Point:	No data available
Freezing/Melting Point:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available
Evaporation Rate:	No data available

10) STABILITY AND REACTIVITY:

CHEMICAL STABILITY:
Product is normally stable under normal conditions of storage and handling.

CONDITIONS TO AVOID:
Strong oxidizer. Contact of concentrated nitric acid with combustible materials may increase the hazard from fire and may lead to an explosion. Decomposes at fire

HAZARDOUS POLMERIZATION:
Under normal conditions of storage and use, hazardous polymerization will not occur

11) TOXICOLOGICAL INFORMATION:

Component	Test	Results	Species
Mixture	LD50 Oral	1139 mg/kg	
	LC50 Inhalation	179 mg/L	
7679-37-2	LD50 Oral	430 mg/kg	Rat
	LD50 Dermal	150 mL/kg	Rat
	LC50 Inhalation	67 ppm	Rat

Routes of Entry:
Skin / Eye / Resp. Irritants
Target Organs:
eyes skin respiratory system

12) ECOLOGICAL INFORMATION:

Nitric acid	LC50; Species: Carcinus maenas (Shore crab); Conditions: /static, aerated water/; Concentration: 180 mg/L for 48 hr LC50; Species: Cerastoderma edule (Cockle); Conditions: renewal, /aerated water/; Concentration: 330 1000 mg/L for 48 hr LC50; Species: Asterias rubens (Starfish); Conditions: renewal, /aerated water/; Concentration: 100 300 mg/L for 48 hr LC50; Species: Agonus cataphractus (Hooknose or pogge); Conditions: saltwater, renewal; Concentration: 100 330 mg/L for 48 hr

13) DISPOSAL CONSIDERATIONS:

Dispose of contents/container according to local, state, and Federal regulations
Acid Waste Number: B203 (with pH =<2.0)

14) DOT TRANSPORTATION INFORMATION:

Agency:	**US DOT**
Proper Shipping Name	Nitric acid other than red fuming, with more than 20 percent and less than 65 percent nitric acid.
UN Number	UN2031
Hazard/Class	8
Packing Group	II
ERG	157
RQ	1000 lbs.; 454 kg final RQ

15) REGULATORY INFORMATION

TSCA 8(b) Inventory:
All components are listed or exempt

Clean Water Act 311 / 312
7697-37-2 Nitric Acid
Immediate
Delayed

Clean Air Act 112 regulated toxic substances:
7697-37-2 Nitric Acid

SARA 313
7697-37-2 Nitric Acid

Resource Conservation and Recovery Act (RCRA) (40 CFR 206 265)
7697 37 2

STATE REGULATIONS:
U.S. - New Jersey - Right to Know Hazardous Substance List
sn 1356
The following chemicals are reportable under Pennsylvania Right to Know:
7697-37-2 Nitric Acid

16) OTHER INFORMATION:

Disclaimer: Acid Products Company Inc. ("Acid Products") believes the information herein provided is factual and accurate but is not intended to be all inclusive. The information relates only to the specific material denoted and does not relate to its use in combination with other materials, or its use as to any particular process. Because safety standards and regulations are subject to change and because Acid Products has no ongoing control over the material when being handled, stored or used, the end user should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that use and disposition of the material is done in accordance with Federal, state and local law. ACID PRODUCTS MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN, OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.

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