

MATERIAL SAFETY DATA SHEET
Nitric acid 20-70%

Section 1 - Chemical Product and Company Identification

MSDS Name: Nitric acid 20-70%

Catalog Numbers: 12466-0000, 12466-0010, 12466-0011, 12466-0025, 12466-0026, 12466-5000, 12466-5001, 13362-0000, 13362-0010, 13362-0011, 13362-0025, 13362-0026, 42400-0000, 42400-0025, 42400-0026, 42400-0250, 42400-5000, 42400-5001

Synonyms:

Company Identification:

Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification: (USA)

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call:

800-ACROS-01

For information in Europe, call:

+32 14 57 52 11

Emergency Number, Europe:

+32 14 57 52 99

Emergency Number US:

201-796-7100

CHEMTREC Phone Number, US:

800-424-9300

CHEMTREC Phone Number, Europe:

703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
7697-37-2	Nitric acid 20-70%	20-70	231-714-2

Hazard Symbols: C



Risk Phrases: 35

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Causes severe burns.

Potential Health Effects

Eye: Causes severe eye burns. May cause irreversible eye injury.

Skin: Causes skin burns. May cause deep, penetrating ulcers of the skin.

Ingestion: Causes gastrointestinal tract burns. May cause perforation of the digestive tract.

Inhalation: May be fatal if inhaled. Effects may be delayed. Causes chemical burns to the respiratory tract.

Chronic: Repeated inhalation may cause chronic bronchitis. Repeated exposure may cause erosion of

teeth.

Section 4 - First Aid Measures

- Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
- Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Ingestion:** Do not induce vomiting. Get medical aid immediately. Wash mouth out with water.
- Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Notes to Physician:**

Section 5 - Fire Fighting Measures

- General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire. Substance is noncombustible.
- Extinguishing Media:** Do NOT use water directly on fire. Use water spray to cool fire-exposed containers. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Section 6 - Accidental Release Measures

- General Information:** Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Neutralize spill with sodium bicarbonate. Use water spray to disperse the gas/vapor.

Section 7 - Handling and Storage

- Handling:** Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.
- Storage:** Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 7697-37-2:

United Kingdom, WEL - TWA: 2 ppm TWA; 5.2 mg/m³ TWA United Kingdom, WEL - STEL: 4 ppm STEL; 10 mg/m³ STEL

United States OSHA: 2 ppm TWA; 5 mg/m³ TWA

Belgium - TWA: 2 ppm VLE; 5.3 mg/m³ VLE Belgium - STEL: 4 ppm VLE; 10 mg/m³ VLE

France - VME: 2 ppm VME; 5 mg/m³ VME France - VLE: 4 ppm VLE; 10 mg/m³ VLE

Germany: 2 ppm TWA; 5.2 mg/m³ TWA

Japan: 2 ppm OEL; 5.2 mg/m³ OEL

Malaysia: 2 ppm TWA; 5.2 mg/m³ TWA

Netherlands: 0.5 ppm STEL; 1.3 mg/m³ STEL

Spain: 2 ppm VLA-ED; 5.2 mg/m³ VLA-ED Spain: 4 ppm VLA-EC; 10 mg/m³ VLA-EC

Personal Protective Equipment

- Eyes:** Wear chemical splash goggles.

- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

- Physical State:** Clear liquid
- Color:** colorless
- Odor:** acrid odor
- pH:** Not available
- Vapor Pressure:** 0.94kPa @20 deg C
- Viscosity:** Not available
- Boiling Point:** 122 deg C @760mmHg (251.60°F)
- Freezing/Melting Point:** -42 deg C (-43.60°F)
- Autoignition Temperature:** Not available
- Flash Point:** Not available
- Explosion Limits: Lower:** Not available
- Explosion Limits: Upper:** Not available
- Decomposition Temperature:** Not available
- Solubility in water:** >100 g/100ml (20°C)
- Specific Gravity/Density:** 1.400
- Molecular Formula:** HNO₃
- Molecular Weight:** 63.01

Section 10 - Stability and Reactivity

- Chemical Stability:** Decomposes when in contact with air, light, or organic matter.
- Conditions to Avoid:** High temperatures, incompatible materials, light, combustible materials, organic materials, exposure to moist air or water.
- Incompatibilities with Other Materials:** Metals, reducing agents, bases, amines, combustible and flammable materials (e.g. alkyl resins, asphalt, gasoline, grease, methyl acetone, polystyrene, polyurethane).
- Hazardous Decomposition Products:** Nitrogen oxides.
- Hazardous Polymerization:** Will not occur.

Section 11 - Toxicological Information

- RTECS#:** CAS# 7697-37-2: QU5775000 QU5900000
- LD50/LC50:** RTECS:
CAS# 7697-37-2: Inhalation, rat: LC50 = 260 mg/m³/30M;
Inhalation, rat: LC50 = 130 mg/m³/4H;
Inhalation, rat: LC50 = 67 ppm(NO₂)/4H;
- Carcinogenicity:** Nitric acid 20-70% - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
- Other:** See actual entry in RTECS for complete information.

Section 12 - Ecological Information

- Ecotoxicity:** Fish: Mosquito Fish: TLm=72 ppm; 96H; fresh water

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	NITRIC ACID(forbidden to ship via passenger air)	NITRIC ACID	NITRIC ACID
Hazard Class:	8	8	8
UN Number:	2031	2031	2031
Packing Group:	II	II	II

USA RQ: CAS# 7697-37-2: 1000 lb final RQ; 454 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 35 Causes severe burns.

Safety Phrases:

S 23 Do not inhale gas/fumes/vapour/spray.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36 Wear suitable protective clothing.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 7697-37-2: 1

Canada

CAS# 7697-37-2 is listed on Canada's DSL List

US Federal

TSCA

CAS# 7697-37-2 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996

Revision #1 Date 12/09/2004

Revisions were made in Sections: General revision.

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