

Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 05.07.2022 Revision: 05.07.2022 Version number 22.05 (replaces version 22.04)

SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier Trade name: Nitric Acid 69% · Article number: 1037 · Application of the substance / the mixture Chemical analytics Laboratory chemicals • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: PANREAC QUIMICA S.L.U. Tel. (+34) 937 489 400 C/Garraf 2 Fax. (+34) 937 489 401 Polígono Pla de la Bruguera e-mail: product.safety@itwreagents.com E-08211 Castellar del Vallès (Barcelona) · Further information obtainable from: email: product.safety@panreac.com · 1.4 Emergency telephone number: Single telephone number for emergency calls: 112 (EU) Tel.: (+34) 937 489 499 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 Ox. Liq. 2 H272 May intensify fire; oxidiser. Met. Corr.1 H290 May be corrosive to metals. Acute Tox. 3 H331 Toxic if inhaled. Skin Corr. 1A H314 Causes severe skin burns and eye damage. · 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms GHS03 GHS05 GHS06 · Signal word Danger · Hazard-determining components of labelling: nitric acid

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|----------------------|--|
| Hazard state | ments |
| H272 May inte | ensify fire; oxidiser. |
| H290 May be | corrosive to metals. |
| H331 Toxic if | inhaled. |
| H314 Causes | severe skin burns and eye damage. |
| Precautionar | y statements |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/heari protection. |
| P303+P361+F | P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse sl with water [or shower]. |
| P305+P351+F | P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove conta lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P321 | Specific treatment (see on this label). |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/nation international regulations. |
| Additional in | formation: |
| EUH071 Corr | osive to the respiratory tract. |
| Product conta | ains: Restricted explosives precursors. Making available, introduction, possession a |
| use according | to Regulation (EU) 2019/1148, Article 5 (1) and (3). |
| 2.3 Other haz | zards |
| Results of PE | 3T and vPvB assessment |
| PBT: Not app | licable. |
| | plicable. |

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:

| Dangerous components. | | | |
|-----------------------|--|----------|--|
| CAS: 7697-37-2 | nitric acid Ox. Liq. 2, H272; Acute Tox. 1, H330; Met. Corr.1, H290; Skin Corr. 1A, H314, EUH071 Specific concentration limits: Ox. Liq. 2; H272: C ≥ 99% Ox. Lig. 3; H272: 70 % ≤ C < 99 % | ≥65-<70% | |
| | OX. Eq. 0, 11272. 10 / 0 = 0 < 00 / 0 | | |

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information:

Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration. Involve doctor immediately.

After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

· After skin contact:

Call a doctor immediately.

Dab with polyethylene glycol 400.

Immediately wash with water and soap and rinse thoroughly.

Immediately remove any clothing soiled by the product.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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· After swallowing:

make victim drink water (maximum of 2 drinking glasses) Do not attempt to neutralize. Call a doctor immediately.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released: Nitrogen oxides (NOx)

Has a fire-promoting effect due to release of oxygen.

- Non-combustible.
- 5.3 Advice for firefighters
- **Protective equipment:** Mouth respiratory protective device. Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Contain escaping vapours with water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Avoid substance contact. Do not inhale steams/aerosols.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Clean up affected area.
6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep respiratory protective device available. The product is not flammable.

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- 7.2 Conditions for safe storage, including any incompatibilities • Storage:
- · Requirements to be met by storerooms and receptacles: Provide acid-resistant floor.
- Information about storage in one common storage facility: Do not store near flammable materials.
- Store away from metals.
- Further information about storage conditions:
- Keep container tightly sealed.
- Open receptacle only under localised extractor facilities.
- Store receptacle in a well ventilated area.
- Store under lock and key and with access restricted to technical experts or their assistants only.
- · Recommended storage temperature: Room Temperature
- Storage class: 5.1 B
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

7697-37-2 nitric acid

WEL Short-term value: 2.6 mg/m³, 1 ppm

· DNELs

7697-37-2 nitric acid

| Inhalative | Acute - local effects, worker | 2.6 mg/m3 |
|------------|--|------------|
| | Long-term - local effects, worker | 1.3 mg/m3 |
| | Acute - local effects, general population | 1.3 mg/m3 |
| | Long-term - systemic effects, general population | 0.65 mg/m3 |

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Respiratory protection:

Combination filter E-P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device only when aerosol or mist is formed.

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- · Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact gloves made of the following materials are suitable: Fluorocarbon rubber (Viton) Recommended thickness of the material: > 0.7 mm
- Value for the permeation: Level \geq 480 min
- As protection from splashes gloves made of the following materials are suitable: Natural rubber, NR

Recommended thickness of the material: ≥ 0.6 mm Value for the permeation: Level ≥ 120 min min

Eye/face protection



Tightly sealed goggles

· Body protection:

Use protective suit. Acid resistant protective clothing

SECTION 9: Physical and chemical properties

| 9.1 Information on basic physical and chemical properties | | |
|--|---|--|
| General Information | | |
| · Physical state | Fluid | |
| · Colour: | Colourless | |
| · Odour: | Pungent | |
| · Odour threshold: | Not determined. | |
| Melting point/freezing point: | Undetermined. | |
| Boiling point or initial boiling point and boiling | | |
| range | Undetermined. | |
| · Flammability | Not applicable. | |
| | Contact with combustible material may cause fire. | |
| • Lower and upper explosion limit | | |
| · Lower: | Not determined. | |
| · Upper: | Not determined. | |
| · Flash point: | Not applicable. | |
| Decomposition temperature: | Not determined. | |
| · pH at 20 °C | <1 | |
| · Viscosity: | | |
| Kinematic viscosity | Not determined. | |
| · Dynamic: | Not determined. | |
| · Solubility | | |
| · water: | Fully miscible. | |
| Partition coefficient n-octanol/water (log value) | Not determined. | |
| Vapour pressure at 20 °C: | 4 hPa | |
| Density and/or relative density | | |
| · Density: | Not determined. | |
| Relative density | Not determined. | |
| · Vapour density | Not determined. | |
| • 9.2 Other information | | |
| · Appearance: | | |
| · Form: | Fluid | |
| · Important information on protection of health | | |
| and environment, and on safety. | | |
| · Auto-ignition temperature: | Product is not selfigniting. | |
| 5 ··· 5 ······ ····· | 0 0 | |
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|---|---|
| Explosive properties: | Product does not present an explosion hazard. |
| Solvent content: | |
| Water: | 31.0 % |
| Change in condition | |
| Evaporation rate | Not determined. |
| Information with regard to physical haz | zard |
| classes | |
| Explosives | Void |
| Flammable gases | Void |
| Aerosols | Void |
| Oxidising gases | Void |
| Gases under pressure | Void |
| Flammable liquids | Void |
| Flammable solids | Void |
| Self-reactive substances and mixtures | Void |
| Pyrophoric liquids | Void |
| Pyrophoric solids | Void |
| Self-heating substances and mixtures | Void |
| Substances and mixtures, which emit | |
| flammable gases in contact with water | Void |
| Oxidising liquids | May intensify fire; oxidiser. |
| Oxidising solids | Void |
| Organic peroxides | Void |
| Corrosive to metals | May be corrosive to metals. |
| Desensitised explosives | Void |

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions
- Risk of ignition or formation of inflammable gases or vapors with:

organic combustible substances, oxidisable substances, organic solvents, Alkohols, Ketones, Aldehydes, anhydrides, Amines, anilines, organic solvent, hydrazine and derivates, acetylidene, Metals, metal alloys, metallic oxides, Alkali metals, Alkaline earth metals, Ammonia, alkalines, Acides, hydrides, halogens, halogen compounds, nonmetallic oxides, nonmetallic halides, nonmetallic hydrogen compounds, nonmetals, phophides, nitrides, lithium silicide, hydrogen peroxide, Nitriles Generation of gases and dangerous vapours:

mercury

copper

Risk of explosion with:

- alcohols
- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials: Reacts with flammable substances.
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5
- · Additional information:

strong oxidants

Incompatible with:

metals

Hydrogen may form upon contact with metals (danger of explosion!).

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water-dangerous.

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| Quantitative data on the toxicological effect of this product are not available.ComponentsTypeValueSpeciesATE (Acute Toxicity Estimates)InhalativeLC50/4 h0.0725-0.0769 mg/l7697-37-2 nitric acidInhalativeLC50/4 h0.05 mg/l (ATE)Skin corrosion/irritation Causes severe skin burns and eye damage.Serious eye damage/irritation Risk of blindness.After inhalation:Strong caustic effect on skin and mucous membranes.Reproductive toxicity7697-37-2 nitric acidNOAEL (Fertility)>1,500 mg/kg bw/day (rat)11.2 Information on other hazardsEndocrine disrupting propertiesNone of the ingredients is listed.SECTION 12: Ecological informationavailable. | /2008 |
|--|--------------------|
| 11.1 Information on hazard classes as defined in Regulation (EC) No 1272 Acute toxicity Toxic if inhaled. LD/LC50 values relevant for classification: Quantitative data on the toxicological effect of this product are not available. Components Type Value Species ATE (Acute Toxicity Estimates) Inhalative LC50/4 h 0.0725-0.0769 mg/l 7697-37-2 nitric acid Inhalative LC50/4 h 0.05 mg/l (ATE) Skin corrosion/irritation Causes severe skin burns and eye damage. Serious eye damage/irritation Risk of blindness. After inhalation: Strong caustic effect on skin and mucous membranes. Reproductive toxicity 7697-37-2 nitric acid NOAEL (Fertility) >1,500 mg/kg bw/day (rat) 11.2 Information on other hazards Endocrine disrupting properties None of the ingredients is listed. SECTION 12: Ecological information 12.1 Toxicity Aquatic toxicity: No further relevant information available. Type of test Effective concentration | /2008 |
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| 7697-37-2 nitric acid | |
| | |
| EC50 >1,000 mg/l (Bakterien) | |
| LC50/96 h 12.5 mg/l (fish) | |
| NOEC 6.75 mg/L (Algae) | |
| 12.2 Persistence and degradability No further relevant information available. | |
| 12.3 Bioaccumulative potential | |
| Due to the distribution coefficient n-octanol/water an accumulation in organisms | s is not expected. |
| 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment | |
| PBT: Not applicable. | |
| vPvB: Not applicable. | |
| 12.6 Endocrine disrupting properties | |
| The product does not contain substances with endocrine disrupting properties. | |
| 12.7 Other adverse effects | |
| Remark: Does not cause biological oxygen deficit. | |
| Harmful effect due to pH shift. | |
| Additional ecological information: | |
| General notes: | |
| Do not allow product to reach ground water, water course or sewage system. | |
| Water beneral place 4 (Oppress Description) (Option 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, | |
| Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardo | us for water |
| Must not reach sewage water or drainage ditch undiluted or unneutralised. | |
| | o decreased pH-val |

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

| SECTION 14: Transport information | |
|--|---|
| · 14.1 UN number or ID number · ADR, IMDG, IATA | UN2031 |
| 14.2 UN proper shipping name ADR, IMDG, IATA | NITRIC ACID |
| · 14.3 Transport hazard class(es) | |
| ADR | |
| | |
| · Class · Label | 8 (C1) Corrosive substances. 8+5.1 |
| ·IMDG | |
| | |
| Class | 8 Corrosive substances. |
| ·Label | 8/5.1 |
| · IATA | 8 Corrosive substances. |
| ·Label | 8 (5.1) |
| · 14.4 Packing group · ADR, IMDG, IATA | 11 |
| · 14.5 Environmental hazards: | Not applicable. |
| 14.6 Special precautions for user Hazard identification number (Kemler code) EMS Number: Segregation groups Stowage Category Segregation Code | Warning: Corrosive substances. : 80 F-A,S-B (SGG1a) Strong acids D SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides |
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| 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| Limited quantities (LQ) Excepted quantities (EQ) | 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| Transport category Tunnel restriction code | 2 E |
| ·IMDG | |
| Limited quantities (LQ) Excepted quantities (EQ) | 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 2031 NITRIC ACID, 8 (5.1), II |
| | |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category
- H2 ACUTE TOXIC
- **P8 OXIDISING LIQUIDS AND SOLIDS**
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- May intensify fire; oxidiser. H272
- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H330 Fatal if inhaled.

EUH071 Corrosive to the respiratory tract.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH)

- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

(Contd. on page 10)

Trade name: Nitric Acid 69%

(Contd. of page 9) Ox. Liq. 2: Oxidizing liquids – Category 2 Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 1: Acute toxicity – Category 1 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1A: Skin corrosion/irritation - Category 1A * * Data compared to the previous version altered. Annex: Exposure scenario · Short title of the exposure scenario Formulation and packing/repacking of substances and mixtures Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet. · Conditions of use · Duration and frequency 5 workdays/week. · Physical parameters · Physical state Fluid · Concentration of the substance in the mixture The substance is main component. · Other operational conditions • Other operational conditions affecting environmental exposure No special measures required. · Other operational conditions affecting worker exposure Avoid contact with eyes. Avoid contact with the skin. Keep away from combustible material. Do not breathe gas/vapour/aerosol. • Other operational conditions affecting consumer exposure No special measures required. • Other operational conditions affecting consumer exposure during the use of the product Not applicable. Risk management measures Worker protection · Organisational protective measures No special measures required. Technical protective measures Ensure that suitable extractors are available on processing machines · Personal protective measures Do not inhale gases / fumes / aerosols. Avoid contact with the skin. Avoid contact with the eyes. Tightly sealed goggles Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Combination filter E-P2 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use suitable respiratory protective device only when aerosol or mist is formed. · Measures for consumer protection Ensure adequate labelling. · Environmental protection measures · Water Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required. · Disposal measures Ensure that waste is collected and contained. Disposal procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system. · Waste type Partially emptied and uncleaned packaging · Exposure estimation · Consumer Not relevant for this Exposure Scenario. · Guidance for downstream users No further relevant information available. GB