



S a f e t y D a t a S h e e t
According to Regulation (EC) 1907/2006
and (EU) 453/2010

1737 Nitric Acid 53%

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Name:

Nitric Acid 53%

CAS: [7697-37-2]

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Skin Corr. 1A

Classification (67/548/CEE or 1999/45/CE).

C Corrosive

R35

2.2 Label elements:

Hazard Pictograms



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

EUH071 Corrosive to the respiratory tract.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

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.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

For the full text of the R-phrases mentioned in this section, see section 16.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

Aqueous solution

Name: Nitric Acid 53%

Formula: HNO_3 M.= 63,01 CAS [7697-37-2]

EC number (EINECS): 231-714-2

EC index number: 007-004-00-1

COMPOSITION:

0001: Nitric Acid fuming

Formula: HNO_3 M.= 63,01 CAS [7697-37-2]

EC number (EINECS): 231-714-2

EC index number: 007-004-00-1

REACH Registration Number: 01-2119487297-23-XXXX

Content: 53 %

Classification Regulation (CE) n° 1272/2008.

Ox. Liq. 2

Skin Corr. 1A

Hazard Pictograms



Signal word

Danger

Hazard statements

H272 May intensify fire; oxidiser.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use for extinction.

P405 Store locked up.

Classification (67/548/CEE or 1999/45/CE).

C Corrosive
O Oxidizing

R35 Causes severe burns.
R8 Contact with combustible material may cause fire.

4. First aid measures

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing. Seek immediate medical assistance.

4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek immediate medical assistance.

4.5 Swallowing:

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance. Do not neutralize.

5. Firefighting measures

5.1 Suitable extinguishing media:

As appropriate to the environment.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Incombustible. In the event of fire, toxic fumes may form: Upon contact with metals, hydrogen gas may form (there is a risk of explosion). In the event of fire, toxic fumes may form. Precipitate fumes formed with water. Cool the recipients with water. Do not allow extinguishing water into surface or underground water courses.

5.4 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not inhale the fumes. Ensure adequate ventilation. Avoid contact with the skin, eyes or clothing.

6.2 Environmental precautions:

Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up:

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water. Neutralize with diluted sodium hydroxide.

7. Handling and storage

7.1 Precautions for safe handling:

No special indications.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. In well ventilated premises.

Recommended storage temperature: Room temperature. Do not store in metal containers.

8. Exposure controls/personal protection

8.1 Exposure controls:

Ensure good ventilation and renewal of the air in the premises.

8.2 Control parameters:

VLA-EC: 1 ppm = 10 mg/m³ VLA-ED: 5,2 mg/m³

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter NO₃.

8.4 Hand protection:

Use suitable gloves neopren

8.5 Eye/face protection:

Use safety glasses.

8.6 Individual hygiene measures:

Use complete protective equipment. Remove contaminated clothing. Wash hands and face before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

(20/4) 1,333 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: above 120 °C

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

10. Stability and reactivity

10.1 Conditions to avoid:

High temperatures.

10.2 Incompatible materials:

Flammable substances. Oxidizable compounds. Organic solvents. Alcohols. Aldehydes. Ketones. Acetylides. Acids. Amines. Ammonia. Anhydrides. Anilines. Halogen compounds. Phosphides. Halogens. Non-metal halides. Hydrazine and derivatives. Hydrides. Lithium silicide. Alkaline metals. Alkali-earth metals. Metals and metal alloys. Nitriles. Nitrogen organic compounds. Nitrides. Non-metals. Metal oxides. Non-metal oxides. Hydrogen peroxide. Alkaline solutions.

10.3 Hazardous decomposition products:

Nitrous fumes.

10.4 Chemical stability:

Vigorous oxidizing agent.

11. Toxicological information

11.1 Acute toxicity:

LD L0 oral hmn : 430 mg/kg

LC50 inh rat : 67 ppm (NO2) 4h

11.2 Dangerous effects for health:

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products. If fumes inhaled: coughing breathing difficulties May cause: oedemas in the respiratory tract Very corrosive substance. Burns in the mucosae, skin and eyes If swallowed: Tissue injuries (mouth, oesophagus, stomach and intestinal tract). Severe pains, with risk of perforation. May cause: vomiting death

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Fish

(For sodium nitrate) 13000 mg/l

Classification:

Toxic

Bacteria

(For sodium nitrate) 2500 mg/l

Classification:

Very toxic

- Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

- Observations:

In the event of infiltration into underground water supplies, these may not be used for drinking water due to the high nitrate content. The ecotoxicity is due to the pH deviation and to the nitrates fl

Acute ecotoxicity in the dumping area.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD5/COD

Biodegradability

- Abiotic degradation depending on pH:

- Observations:

Does not consume oxygene.

Non-biodegradable product.

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk

- Observations:

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Neutralize with NaOH at pH 7.

Encourages eotrophy in rivers and water channels.

Ecotoxic effects due to the pH variation.

13. Disposal considerations

13.1 Waste treatment methods:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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14. Transport information

Overland (ADR):

Technical name: NITRIC ACID, other than red fuming, with not more than 65% nitric acid

UN 2031 Class: 8 Packaging group: II (E)

By sea (IMDG):

Technical name: NITRIC ACID, other than red fuming, with not more than 65% nitric acid

UN 2031 Class: 8 Packaging group: II

By air (ICAI-IATA):

Technical name: Nitric acid

UN 2031 Class: 8 Packaging group: II

Packaging instructions: CAO 855 PAX F

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

Other precautionary statements

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 cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s): **R35** Causes severe burns.

S-phrase(s): **S45** In case of accident or if you feel unwell,
seek medical advice immediately (show the label
where possible).
 S36 Wear suitable protective clothing.
 S26 In case of contact with eyes, rinse
immediately with plenty of water and seek
medical advice.
 S23c Do not breathe vapour.

Version and revision date : 5 30.01.2017

Date published: 15.09.2011

In respect of the previous review, changes have been made to the following
sections: 2

The information included in this Safety Data Sheet is based on our most up-to-date
knowledge, and is solely intended to inform regarding aspects of safety; the
properties and characteristics indicated herein are not guaranteed.