

Safety Data Sheet
According to Regulation (EU) 830/2015

1038 Nitric Acid fuming

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

1.1 Product identifier

Name:

Nitric Acid fuming

REACH Registration Number: 01-2119487297-23-XXXX

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)

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Ox. Liq. 2

Skin Corr. 1A

2.2 Label elements:

Hazard Pictograms



Signal word

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.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

3.1 Substances

Name: Nitric Acid fuming

Formula: HNO₃ 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

3.2 Mixtures

4. First aid measures

4.1 Description of first aid measures

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

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

Swallowing:

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

Inhaling:

Take the person out into the fresh air. In the event of suffocation, proceed immediately to provide artificial respiration. Seek immediate medical assistance.

Contact with the skin:

Wash with plenty of water. Remove contaminated clothing. Take the product out with cotton wool soaked in polyethylene-glycol 400. Seek immediate medical assistance.

Eyes:

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

5. Firefighting measures**5.1 Extinguishing media:**

Water. Carbon dioxide (CO₂). Alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture:

Incombustible. In the event of fire, toxic fumes may form: Encourages fire to break out. Keep away from combustible substances. 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.

5.3 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.

6.4 Reference to other sections

Not applicable

7. Handling and storage**7.1 Precautions for safe handling:**

Possible formation of pressure inside the container.

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. Away from sources of ignition and heat. Store separately or in an enclosure exclusively set aside for substances which are likely to ignite.

7.3 Specific end use(s)

No more relevant data available

8. Exposure controls/personal protection

8.1 Control parameters:

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

8.2 Exposure controls

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

Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter B. Filter P. Filter NOX.

Hand protection:

Use suitable gloves neopren latex

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

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

Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid

Colour: yellow to brown-reddish

Granulometry: N/A

Odour: Piquant.

pH: <1

Melting point/freezing point: -40 °C

Initial boiling point and boiling range: 84 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: 56 hPa (20 °C)

Vapour density: N/A

Relative density: (15/4) 1,502 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: above 84 °C

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

9.2 Other information

No more relevant data available

10. Stability and reactivity

10.1 Reactivity

No specific data.

10.2 Chemical stability:

Vigorous oxidizing agent.

10.3 Possibility of hazardous reactions

No specific data.

10.4 Conditions to avoid:

High temperatures.

10.5 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.

10.6 Hazardous decomposition products:

Nitrous fumes.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD L0 oral man : 430 mg/kg

LD L0 oral hmn : 430 mg/kg

LC50 inh rat : 67 ppm (NO2) 4h

Dangerous effects for health:

If fumes inhaled: Burns in the mucosae. coughing breathing difficulties May cause: oedemas in the respiratory tract Very corrosive substance. Upon contact with the skin: 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 Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

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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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

14.1 UN number

UN2032

14.2 UN proper shipping name

NITRIC ACID, RED FUMING

14.3 Transport hazard class(es)

8

5.1

6.1

14.4 Packing group

ADR/IMDG: I

IATA: -

14.5 Environmental hazards**14.6 Special precautions for user**

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

15.2 Chemical safety assessment

Not applicable

16. Other information

Other precautionary statements

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.

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In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15

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.