

Safety Data sheet

According to Directive 1907/2006

0135 NITRIC ACID 53% w/w

Creation Date: 01/12/2010 Revision date: 31/05/2017

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

Identification of the product

Catalogue No: 0135 Product name: NITRIC ACID 53% w/w Use of the substance: Analysis and chemical-pharmaceutical production
REACH registration Nr.: 01-2119487297-23-0000

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

8 Contact with combustible material may cause fire.
35 Causes severe burns.

S-phrases

23.2 Do not breath vapour.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36 Wear suitable protective clothing.
45 In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible)

Labelling in accordance with directive 1272/2008



H-phrases

314 Causes severe skin burns and eye damage.

290 May be corrosive to metals.

P-phrases

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

305+351 If in eyes: Rinse cautiously with water for several minutes.

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

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

280 Wear protective gloves/protective clothing/eye protection/face protection.

Signal word : DANGER

CORROSIVE

R-phrases:

Contact with combustible material may cause fire.

Causes severe burns.

3.Composition/information on ingredients

Aqueous solution

Short hazard description

NITRIC ACID 100% w/w (CAS-Nr. 7697-37-2, EINECS-Nr. 231-71-42) 52-54%

R-Phrases: 8; 35

OXIDICING; CORROSIVE

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

CAS-No.: 7697-37-2

Molecular Weight: 63,01

Chemical formula: HNO₃

EC-Index-No.: 007-004-00-1

EC-No.: 231-714-2

R-phrases 8; 35

For more information about the R-Phrases text you can consult the paragraph 16

4.First aid measures

After inhalation:

Fresh air

If sickness persists, call the physician

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

Call the physician

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

Call the ophthalmologist

After swallowing:

Drink lots of water

Avoid vomiting (perforation risk)

Call the doctor

Do not carry out neutralization measures

5.Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

Ambient fire may liberate hazardous vapours
In case of fire, nitrous gases can be formed
In contact with metals, gaseous hydrogen could form (explosion risk)

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Other information:

Precipitate emergent steam with water

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Not to inhale steam/aerosols

Avoid contact with the substance

Ventilation in closed spaces

Procedures for cleaning/absorption:

To gather with absorbents

To come to the elimination of the remainders

Rinse.

Other information:

Neutralize with diluted NaOH

Environmental protection measures:

Do not allow that the product gets to the environment

7. Handling and storage

Handling: Work under display cabinet extractor

Storage:

Well closed

In well-ventilated place

Storage temperature: ambient

Do not use metallic containers

Protected from direct sunlight

8. Exposure controls/personal protection

Exposure limit control

NITRIC ACID 100% w/w

TLV-TWA: 5 mg/m³; TLV-STEL: 10 mg/m³

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Skin and body protection:

Suitable protective clothing

Other protective equipment:

Change immediately contaminated clothes

Wash hands and face when the work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Liquid

Colour: Colourless

Odour: Characteristic

pH value: <1

Density (g/cm³): 1,330

Solubility: Soluble in water

10. Stability and reactivity

Substances to be avoided:

Acids.

Anhydrides.

Hydrogen peroxide.

Halogens.

Alkaline-earth metals.

Alkaline metals.

Hydride.

Aldehydes.

Amines.

Ammonia.

Alkaline salts.

Metal and metal alloys.

Metal oxides.

Nitrogen organic compounds.

Acetylides.

Ketonas.

Alcoholates.

Combustible substances.

Phosphorus.

Nonmetallic halides.

Nonmetallic oxides.

Hazardous decomposition products:

Nitrous gases.

Hydrogen in contact with metals

Further information:

Strong oxidizing agent.

11. Toxicological information

After inhalation:

Coughing

Dyspnoea

Oedemas in the respiratory tract

Very corrosive substance

Burns of mucous membranes

After swallowing:

Tissue damage (mouth, oesophagus, gastrointestinal tract)

Strong pain
Risk of perforation in stomach
Risk of perforation in the oesophagus
Vomiting
Death

Further toxicological information:

Other dangerous characteristics are not discarded
Take the usual precautions for handling chemical products

12. Ecological information

Fishes: EC50: 13000 mg/l (NaNO₃)
Bacteria: EC50: 2500 mg/l (NaNO₃)

Other harmful effects:

Harmful effect due to pH shift
Hazard for drinking water supplies
Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities
May contribute to the eutrophication of water supplies

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.
Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.
For contaminated packaging the same measures must be adopted as for the contaminated product.
Not contaminated packaging must be disposed of as domestic residues or recycled material.
European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

UN: 2031
Class: 8
Packaging group: II
Correct technical name: NITRIC ACID

Sea transport IMDG

UN: 2031
Class: 8/II
Packaging group: II
Correct technical name: NITRIC ACID

Air transport ICAO-IATA-DGR

UN: 2031
Class: 8
Packaging group: II
Correct technical name: NITRIC ACID
CAO: 855
PAX: F

15.Regulatory information

16.Other information

Full text of R phrases mentioned in sections 2 and 3

8 Contact with combustible material may cause fire.

35 Causes severe burns.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.