



SAFETY DATA SHEET

1. Identification of the substance / preparation and company.

1.1 Product identifier

Product Nr. CL02.1803

Trade name Cleaning solution for electrodes

REACH A registration number is not available for this substance as the substance or its use are
Registration exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the
Number annual tonnage does not require a registration or the registration is envisaged for a later
registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Reagent for analysis

In compliance with the conditions described in the annex to this safety data sheet.

1.3 Information provided by CHEM-LAB NV product service.

Responsible department: CHEM-LAB NV

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1.4 Emergency telephone: 00 (32) 50.28.83.20

2. Hazard identification

2.1 Classification of the substance or the mixture (EG 1272/2008)

Skin corrosion/irritation, H314

For the full text of H-sentences mentioned in this Section, see Section 16

For the full text of R-sentences mentioned in this Section, see Section 16

2.2 GHS-Labeling

GHS-Labeling Labelling (REGULATION (EC) No 1272/2008) (EG 1272/2008)

Hazard pictograms:



Signal word:

Warning :

Hazard statements:

H314

Causes severe skin burns and eye damage.

Precautionary statements:

P280

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

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Reduced labelling
Hazard pictograms:



Signal word:
Warning :

3. Composition / Information on ingredients.

3.1 Substance

Not applicable

3.2 Mixture

Formula HNO₃/HF/H₂O

4. First aid measures.

4.1 Description of first aid measures

General advice

First-aid personnel: ensure self-protection!

After inhalation:

After contact with skin:

After contact with eyes:

After ingestion:

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. Fire fighting measures.

5.1 Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

5.2 Special hazards arising from substance or mixture

5.3 Advice for firefighters

5.4 Further information

no data available

6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes

For personal protection see section 8.

6.2 Environmental precautions

Place in a closed container for disposal. Do not empty into drains. Disposal should be in accordance with local or national legislation.

6.3 Methods and materials for containment and cleaning up

Absorb on vermiculite, sand or a pillow from Chemical Spill Center.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage.

7.1 Precautions for safe handling

Only in chemical fume hood.

For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls - Personal protection.

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

See section 7.1

Individual protection measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace. Work under hood . Do not inhale substance.

Respiratory protections

Required when vapours/aerosols are generated.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Eye protection

Required.

Hand protection

Required.

Body protection

Required.

Environmental exposure controls

Place in a closed container for disposal. Do not empty into drains. Disposal should be in accordance with local or national legislation.

9. Physical and chemical properties.

9.1 Information on basic physical

Appearance

Form: Liquid
Colour: Colourless
Odour: Odourless

Changes in physical state

Melting Point: 0°C
Boiling point: 100°C
Flash point: -
Ignation temperature: -
Mol. Weight:
Density: 1,00 g/ml
pH value: pH < 1
Solubility in water: soluble
Explosion limits:

9.2 Other data

No further relevant information available.

10. Stability and reactivity.

10.1 Reactivity

See section 10.3

10.2 Chemical stability

No further relevant information available.

10.3 Possibility of hazardous reactions

Dangerous reactions are not expected handling the product according to its intended use.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No further relevant information available.

11. Toxicological information.

11.1 Information on toxicological effects

Acute oral toxicity

Acute inhalation toxicity

No further relevant information available.

Acute dermal toxicity

No further relevant information available.

Skin irritation

No further relevant information available.

Eye irritation
No further relevant information available.

Sensitisation
No further relevant information available.

Germ cell mutagenicity
No further relevant information available.

Carcinogenicity
No further relevant information available.

Reproductive toxicity
No further relevant information available.

Teratogenicity
No further relevant information available.

Specific target organ toxicity - single exposure
No further relevant information available.

Specific target organ toxicity - repeated exposure
No further relevant information available.

Aspiration hazard
No further relevant information available.

11.2 Further information

No further relevant information available.

Further data:

Handle in accordance with good industrial hygiene and safety practice..

12. Ecological information.

12.1 Toxicity

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

No further relevant information available.

12.6 Other adverse effects

None

13. Disposal considerations.

Product: Chemicals must be disposed of in compliance with the respective national regulations. Packaging: Chem-lab product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

14. Transport information.

Land Transport (ADR/RID)

14.1 UN number

UN 3289

Toxic liquid, corrosive, inorganic,

14.2 Proper shipping name	n.o.s. (Hydrofluoric acid, nitric acid solution)
14.3 Class	6.1 (8)
14.4 Packing group	II
14.5 Environmentally hazardous	-
14.6 Special precautions for user	no
Tunnel restriction code	(D/E)
Inland waterway transport (ADN)	
Not relevant	
Air Transport (IATA)	
14.1 UN number	UN 3289
	Toxic liquid, corrosive, inorganic, n.o.s. (Hydrofluoric acid, nitric acid solution)
14.2 Proper shipping name	
14.3 Class	6.1 (8)
14.4 Packing group	II
14.5 Environmentally hazardous	-
14.6 Special precautions for user	no
Sea Transport (IMDG)	
14.1 UN number	UN 3289
	Toxic liquid, corrosive, inorganic, n.o.s. (Hydrofluoric acid, nitric acid solution)
14.2 Proper shipping name	
14.3 Class	6.1 (8)
14.4 Packing group	II
14.5 Environmentally hazardous	-
14.6 Special precautions for user	no
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Not relevant	

15. Regulatory information.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

For this product an assessment was not carried out.

15.2 Chemical Safety Assessment

For this product an assessment was not carried out.

16. Other information.

The information and recommendations in this MSDS are to the best of our knowledge, information and belief accurate at the date of publications. Although utmost care has been taken in the composition of this text, the publisher cannot be held responsible for any damage resulting from any possible error in this publications.

Full text of H-Statements referred to under sections 2 and 3.

H314 Causes severe skin burns and eye damage.