

SAFETY DATA SHEET

1. Identification of the substance / preparation and company.

1.1 Product identifier

Product Nr. CL02.1418

Trade name Nessler reagent

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 AnalytiChem Belgium NV product service.

Responsible department: AnalytiChem Belgium NV

Industriezone "De Arend" 2

B-8210 Zedelgem

BELGIUM

Tel. +32 50 28 83 20 e-mail: info.be@analytichem.com

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)

Acute toxicity, Oral, Categorie 3, H301

Acute toxicity, Dermal, Categorie 1, H310

Skin corrosion/irritation, Categorie 1A, H314

Acute toxicity, Inhalation, Categorie 2, H330

Specific target organ toxicity - repeated exposure, Categorie 2, H373

Hazardous to the aquatic environment, Categorie 1, H410

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-Labelling

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

Hazard pictograms:



Signal word:

Danger :

Hazard statements:

H301

Toxic if swallowed.

H310

Fatal in contact with skin.

H314	Causes severe skin burns and eye damage.
H330	Fatal if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P260	Do not breathe dust, fume, gas, mist, vapours, spray.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection, face protection.
P284	Wear respiratory protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P350	IF ON SKIN: Gently wash with plenty of soap and water.

Reduced labelling

Hazard pictograms:



Signal word:

Danger :

3. Composition / Information on ingredients.

3.1 Substance

Not applicable

3.2 Mixture

Hazardous Ingredients:

Name according to EC directives:

Component	Cas-No.	Concentration	Classification (REGULATION (EC) No 1272/2008)
Potassium iodide a.r.	7681-11-0	≥2%-<5%	STOT RE 1 (H372)
Mercury(II) chloride a.r.	10112-91-1	<0,1%	Acute Tox. (oral) 4 (H302) Eye Irrit. 2 (H319) STOT SE 3 (H335) Skin Corr. 2 (H315) Aquatic Chronic 1 (H410)
Sodium hydroxide, pellets a.r.	1310-73-2	≥10%-<15%	Skin Corr. 1A (H314) Met. Corr. 1 (H290)
Water (Ultra Pure)	7732-18-5	≥25%-<90%	

Component	Reach Number
Potassium iodide a.r.	01-2119906339-35
Sodium hydroxide, pellets a.r.	01-2119457892-27

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

4. First aid measures.

4.1 Description of first aid measures

General advice

First-aid personnel: ensure self-protection!

After inhalation: Remove to fresh air, seek medical advice.

After contact with skin: Wash off with plenty of water. Remove contaminated clothing.

After contact with eyes: Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call an ophthalmologist.

After ingestion: Never give anything by mouth to an unconscious person. Make the victim drink plenty of water, induce vomiting. Call in physician.

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

In adaption to materials stored in the immediate neighbourhood.

Unsuitable extinguishing media

Prevent fire-fighting water from entering surface water or groundwater.

5.2 Special hazards arising from substance or mixture

Non-combustible. Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

5.4 Further information

No data available

6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms. For personal protection see section 8.

6.2 Environmental precautions

Do not allow to enter sewerage system.

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

No special measures necessary. The product should be handled with the care usual when dealing with chemicals.

For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Closed in a well ventilated place.

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/dust 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

Do not allow to enter sewerage system.

9. Physical and chemical properties.

9.1 Information on basic physical

Appearance

Form: Liquid

Colour: Yellow

Odour: Odourless

Changes in physical state

Melting Point: 0°C

Boiling point: 100°C

Flash point: -

Self Ignation temperature: -

Mol. Weight:

Density: 1,15 g/ml

pH value: pH > 12

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

Avoid contact with acids, metals, combustible materials, heat and sun light.

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

Quantitative data on the toxicity of this product are not available.

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

Do not allow to enter waters, waste water, or soil!

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 2922

Corrosive liquid, toxic, n.o.s.
(Mercury(II)iodide, sodium
hydroxide solution)

14.2 Proper shipping name

14.3 Class

8 (6.1)

14.4 Packing group

II

14.5 Environmentally hazardous

yes

14.6 Special precautions for user

no

Tunnel restriction code

(E)

Inland waterway transport (ADN)

Not relevant

Air Transport (IATA)

14.1 UN number

UN 2922

Corrosive liquid, toxic, n.o.s.
(Mercury(II)Iodide, sodium
hydroxide solution)

14.2 Proper shipping name

14.3 Class

8 (6.1)

14.4 Packing group

II

14.5 Environmentally hazardous

yes

14.6 Special precautions for user

no

Sea Transport (IMDG)

14.1 UN number

UN 2922

Corrosive liquid, toxic, n.o.s.
(Mercury(II)Iodide, sodium
hydroxide solution)

14.2 Proper shipping name

14.3 Class

8 (6.1)

14.4 Packing group

II

14.5 Environmentally hazardous

yes

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.

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

