# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing 21.11.2023 version number 16 (replaces version 15) Revision: 21.11.2023

* 
## SECTION 1: Identification of the substance/mixture and of the company/undertaking

*1.1 Product identifier
*Trade name: SODIUM HYDROXIDE 0.111N (0.111M)
Analytical Volumetric Solution

*Article number: S20111
*Registration number
A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
*UFI: GFX0-G04P-R009-QQ9S
*1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
*Application of the substance / the mixture Laboratory Chemicals

*1.3 Details of the supplier of the safety data sheet
*Manufacturer/Supplier:
Reagecon Diagnostics Ltd.
Shannon Free Zone,
Shannon,
Co. Clare,
Ireland.
Tel +353 61 472622
Fax +353 61 472642

*Further information obtainable by contacting: sds@reagecon.ie
*1.4 Emergency telephone number:
National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC
For Ireland call +(353)-19014670
For Outside Ireland call +1 703-741-5970 / 1-800-424-9300 CCN849800

## SECTION 2: Hazards identification

*2.1 Classification of the substance or mixture
*Classification according to Regulation (EC) No 1272/2008
The product is not classified, according to the CLP regulation.

*2.2 Label elements
*Labelling according to Regulation (EC) No 1272/2008 Void
*Hazard pictograms Void
*Signal word Void
*Hazard statements Void
*2.3 Other hazards
*Results of PBT and vPvB assessment
*PBT: Not applicable.
*vPvB: Not applicable.

* 
## SECTION 3: Composition/information on ingredients

*3.1 Substances
*CAS No. Description
PURIFIED WATER
*Identification number(s)
*EC number: 231-791-2

(Contd. on page 2)

# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing 21.11.2023 version number 16 (replaces version 15) Revision: 21.11.2023

**Trade name: SODIUM HYDROXIDE 0.111N (0.111M)**
**Analytical Volumetric Solution**

(Contd. of page 1)

*3.2 Mixtures
*Description: Mixture of substances listed below with nonhazardous additions.

*Dangerous components: Void
*Additional information: For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

*4.1 Description of first aid measures
*General information: No special measures required.
*After inhalation:
Provide fresh air, warmth and rest. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Obtain medical attention if any discomfort continues.
*After skin contact: Generally the product does not irritate the skin.
*After eye contact:
Promptly wash eyes with plenty of water for up to 15 minutes. Open eyes wide apart and rinse well to remove any contact lenses. Do not remove contact lenses by hand. Continue to rinse. Get medical attention if symptoms persist.
*After swallowing: If symptoms persist consult doctor.
*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
No further relevant information available.

## SECTION 5: Firefighting measures

*5.1 Extinguishing media
*Suitable extinguishing agents:
Indications shall be given whether any extinguishing media are inappropriate for a particular situation involving the substance or mixture
Use fire extinguishing methods suitable to surrounding conditions.
*5.2 Special hazards arising from the substance or mixture No further relevant information available.
*5.3 Advice for firefighters
*Protective equipment:
Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers

## SECTION 6: Accidental release measures

*6.1 Personal precautions, protective equipment and emergency procedures Not required.
*6.2 Environmental precautions: Dilute with plenty of water.
*6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
*6.4 Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## SECTION 7: Handling and storage

*7.1 Precautions for safe handling No special measures required.
*Information about fire - and explosion protection: No special measures required.

(Contd. on page 3)

# Safety data sheet
## according to 1907/2006/EC, Article 31

*Printing 21.11.2023* *version number 16 (replaces version 15)* *Revision: 21.11.2023*

***Trade name: SODIUM HYDROXIDE 0.111N (0.111M)***
***Analytical Volumetric Solution***

(Contd. of page 2)

***7.2 Conditions for safe storage, including any incompatibilities***
***Storage:***
***Requirements to be met by storerooms and receptacles:** No special requirements.*
***Information about storage in one common storage facility:** Not required.*
***Further information about storage conditions:** None.*
***7.3 Specific end use(s)** No further relevant information available.*

## SECTION 8: Exposure controls/personal protection

***8.1 Control parameters***
***Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*
***Additional information:** The lists valid during the making were used as basis.*

***8.2 Exposure controls***
***Appropriate engineering controls** No further data; see item 7.*
***Individual protection measures, such as personal protective equipment***
***General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.*
***Respiratory protection:** Not required.*
***Hand protection***
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Always ensure that gloves are inspected before use.
Selection of protective gloves must include consideration of the penetration times along with rates of diffusion and degradation. The selected glove should comply with the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.*
***Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.*

*Full contact*
*Material: Nitrile rubber*
*Minimum layer thickness: 0.11 mm*
*Break through time: 480 min*

*Splash contact*
*Material: Nitrile rubber*
*Minimum layer thickness: 0.11 mm*
*Break through time: 480 min*

*If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.*
***Penetration time of glove material**
In the absence of data above, the exact break through time has to be sourced from the manufacturer of the protective gloves and has to be observed.*

(Contd. on page 4)

# Safety data sheet
## according to 1907/2006/EC, Article 31

*Printing 21.11.2023* *version number 16 (replaces version 15)* *Revision: 21.11.2023*

***Trade name: SODIUM HYDROXIDE 0.111N (0.111M)***
***Analytical Volumetric Solution***

(Contd. of page 3)

***Eye/face protection**



*Goggles recommended during refilling: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)*

* 
## SECTION 9: Physical and chemical properties

| | |
|---|---|
| ***9.1 Information on basic physical and chemical properties** | |
| ***General Information** | |
| ***Physical state** | *Liquid* |
| ***Colour:** | *Colourless* |
| ***Odour:** | *Odourless* |
| ***Odour threshold:** | *Not determined.* |
| ***Melting point/freezing point:** | *0 °C* |
| ***Boiling point or initial boiling point and boiling range** | *100 °C* |
| ***Flammability** | *Not applicable.* |
| ***Lower and upper explosion limit** | |
| ***Lower:** | *Not determined.* |
| ***Upper:** | *Not determined.* |
| ***Flash point:** | *Not applicable.* |
| ***Decomposition temperature:** | *Not determined.* |
| ***pH** | *Not determined.* |
| ***Viscosity:** | |
| ***Kinematic viscosity** | *Not determined.* |
| ***Dynamic:** | *Not determined.* |
| ***Solubility** | |
| ***water:** | *Fully miscible.* |
| ***Partition coefficient n-octanol/water (log value)** | *Not determined.* |
| ***Vapour pressure at 20 °C:** | *23 hPa* |
| ***Density and/or relative density** | |
| ***Density at 20 °C:** | *1.00501 g/cm³* |
| ***Relative density** | *Not determined.* |
| ***Vapour density** | *Not determined.* |

| | |
|---|---|
| ***9.2 Other information** | |
| ***Appearance:** | |
| ***Form:** | *Liquid* |
| ***Important information on protection of health and environment, and on safety.** | |
| ***Auto-ignition temperature:** | *Product is not selfigniting.* |
| ***Explosive properties:** | *Product does not present an explosion hazard.* |
| ***Change in condition** | |
| ***Evaporation rate** | *Not determined.* |

| | |
|---|---|
| ***Information with regard to physical hazard classes** | |
| ***Explosives** | *Void* |
| ***Flammable gases** | *Void* |
| ***Aerosols** | *Void* |
| ***Oxidising gases** | *Void* |
| ***Gases under pressure** | *Void* |
| ***Flammable liquids** | *Void* |
| ***Flammable solids** | *Void* |
| ***Self-reactive substances and mixtures** | *Void* |

(Contd. on page 5)

# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing 21.11.2023 version number 16 (replaces version 15) Revision: 21.11.2023

**Trade name: SODIUM HYDROXIDE 0.111N (0.111M)**
**Analytical Volumetric Solution**

(Contd. of page 4)

| | |
|---|---|
| *Pyrophoric liquids | Void |
| *Pyrophoric solids | Void |
| *Self-heating substances and mixtures | Void |
| *Substances and mixtures, which emit flammable gases in contact with water | Void |
| *Oxidising liquids | Void |
| *Oxidising solids | Void |
| *Organic peroxides | Void |
| *Corrosive to metals | Void |
| *Desensitised explosives | Void |

## SECTION 10: Stability and reactivity

*10.1 Reactivity No further relevant information available.
*10.2 Chemical stability
*Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
*10.3 Possibility of hazardous reactions No dangerous reactions known.
*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 dangerous decomposition products known.

## SECTION 11: Toxicological information

*11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
*Acute toxicity Based on available data, the classification criteria are not met.
*Skin corrosion/irritation Based on available data, the classification criteria are not met.
*Serious eye damage/irritation Based on available data, the classification criteria are not met.
*Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
*Germ cell mutagenicity Based on available data, the classification criteria are not met.
*Carcinogenicity Based on available data, the classification criteria are not met.
*Reproductive toxicity Based on available data, the classification criteria are not met.
*STOT-single exposure Based on available data, the classification criteria are not met.
*STOT-repeated exposure Based on available data, the classification criteria are not met.
*Aspiration hazard Based on available data, the classification criteria are not met.
*11.2 Information on other hazards

| *Endocrine disrupting properties |
|---|
| None of the ingredients is listed. |

* 

## SECTION 12: Ecological information

*12.1 Toxicity
*Aquatic 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
*PBT: Not applicable.
*vPvB: Not applicable.
*12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

(Contd. on page 6)

# Safety data sheet
## according to 1907/2006/EC, Article 31

*Printing 21.11.2023* *version number 16 (replaces version 15)* *Revision: 21.11.2023*

***Trade name: SODIUM HYDROXIDE 0.111N (0.111M)***
***Analytical Volumetric Solution***

(Contd. of page 5)

***12.7 Other adverse effects**
***Additional ecological information:**
***General notes:** Not hazardous for water.

## SECTION 13: Disposal considerations

***13.1 Waste treatment methods**
***Recommendation** Smaller quantities can be disposed of with household waste.

***Uncleaned packaging:**
***Recommendation:** Disposal must be made according to official regulations.
***Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

| | |
|---|---|
| ***14.1 UN number or ID number**<br>***ADR, ADN, IMDG, IATA** | Void |
| ***14.2 UN proper shipping name**<br>***ADR, ADN, IMDG, IATA** | Void |
| ***14.3 Transport hazard class(es)**<br>***ADR, ADN, IMDG, IATA**<br>***Class** | Void |
| ***14.4 Packing group**<br>***ADR, IMDG, IATA** | Void |
| ***14.5 Environmental hazards:**<br>***Marine pollutant:** | No |
| ***14.6 Special precautions for user** | Not applicable. |
| ***14.7 Maritime transport in bulk according to IMO instruments** | Not applicable. |
| ***Transport/Additional information:** | Not dangerous according to the above specifications. |
| ***UN "Model Regulation":** | Void |

## SECTION 15: Regulatory information

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

***Directive 2012/18/EU**
***Named dangerous substances - ANNEX I** None of the ingredients is listed.

***DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

***REGULATION (EU) 2019/1148**

***Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

***Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

(Contd. on page 7)

# Safety data sheet
## according to 1907/2006/EC, Article 31



**Trade name: SODIUM HYDROXIDE 0.111N (0.111M)**
**Analytical Volumetric Solution**

(Contd. of page 6)

***Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

***Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

***National regulations:**

***Waterhazard class:** Generally not hazardous for water.
***15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Department issuing SDS:** Health and Safety
***Contact:** sds@reagecon.ie
***Date of previous version:** 08.03.2019
***Version number of previous version:** 15
***Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
***NO**