

Revision nr. 7 Dated 15/01/2018 Printed on 13/06/2018 Page n. 1/8

TC33500 - SODIUM HYDROXIDE 0,1N=N/10=0,1M

Information Sheet

(meeting the information requirements on substances and mixtures pursuant to art. 32 of the Reg. (CE) 1907/2006 - REACH)

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

1.1. Product identifier

Code: **TC33500**

Product name SODIUM HYDROXIDE 0,1N=N/10=0,1M

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

Intended use Laboratory reagent

1.3. Details of the supplier of the safety data sheet

Name TITOLCHIMICA SPA

Full address VIA S.PIETRO MARTIRE 1054
District and Country 45030 PONTECCHIO POLESINE (RO)

ITALIA

Tel. +39425492644 Fax +39425492909

e-mail address of the competent person

responsible for the Safety Data Sheet utecnico@titolchimica.it

1.4. Emergency telephone number

For urgent inquiries refer to Poison control center (24/24h) available to the public: Regional Medicines and Poisons

Information Centre NI emergency phone 844 892 0111

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: --

Physical-chemical hazards: the product is not classified for this class of danger.

Health hazards: the product is not classified as hazardous to health.

Environmental hazards: the product is not classified as dangerous for the environment.

2.2. Label elements

The product does not require hazard labeling in accordance with Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and supplements) in such quantities as to require the statement.



Revision nr. 7 Dated 15/01/2018 Printed on 13/06/2018 Page n. 2/8

TC33500 - SODIUM HYDROXIDE 0,1N=N/10=0,1M

SECTION 4. First aid measures

4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Consult a doctor.

SECTION 5. Firefighting measures

5.1. Extinguishing media

The product is not combustible: choose the means of extinction best suited to the specific situation, evaluating its compatibility with the possible presence of other substances. Given the physical state it is recommended to use water, chemical powder, foam.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For those who do not intervene directly

Alert personnel responsible for managing such emergencies. Move away from the accident area if you are not in possession of the personal protective equipment listed in Section 8.

For those who intervene directly

Remove all personnel not adequately equipped to cope with the emergency.

Wear appropriate personal protective equipment referred to in section 8 of the safety data sheet to prevent contamination of skin, eyes and personal clothing. Block the loss if there is no danger.

Making the area affected by the accident accessible to workers only after adequate reclamation has taken place. Ventilate the premises affected by the accident.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.



Revision nr. 7 Dated 15/01/2018 Printed on 13/06/2018 Page n. 3/8

1 mg/m3

TC33500 - SODIUM HYDROXIDE 0,1N=N/10=0,1M

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

TLV-ACGIH

ACGIH 2017

SODIUM HYDROXIDE Threshold Limit Value							
Туре	Country	TW A/8h		STEL/15min		Critical effects	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH				2 (C)		Eye, cutaneous and upper respiratory tract irritation	

I .		······································											
Health - Derived no-effect level - DNEL / DMEL													
	Effects on				Effects on								
	consumers				workers								
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Chronic local	Acute local	Acute	Chronic					
				systemic			systemic	systemic					

1 mg/m3

Legend:

Inhalation

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

Sampling methods

The following sampling methods are suggested for the substances mentioned in the previous tables.

SODIUM HYDROXIDE

http://amcaw.ifa.dguv.de/substance/methoden/045-sodium_hydroxide_2016.pdf

8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.



Revision nr. 7 Dated 15/01/2018 Printed on 13/06/2018 Page n. 4/8

TC33500 - SODIUM HYDROXIDE 0,1N=N/10=0,1M

SKIN PROTECTION

None required.

EYE PROTECTION

None required.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Clear liquid
Colour colourless
Odour Not available
Odour threshold Not available
pH >13
Melting point / freezing point Not available

Melting point / freezing pointNot availableInitial boiling pointNot availableBoiling rangeNot availableFlash pointNot availableEvaporation rateNot available

Flammability (solid, gas)

Not applicable (the product is liquid)

Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available

Vapour pressure Not applicable (the product is a mixture) Vapour density Not applicable (the product is a mixture)

Relative density 1 k/l

Solubility Not available

Partition coefficient: n-octanol/water Not applicable (the product is a mixture)

Auto-ignition temperature Not available Decomposition temperature Not available Viscosity Not available

provisions of Annex I, Part 2, chapter 2.1.4.3 of Regulation (EC) 1272/2008 - CLP).

Oxidising properties Not applicable (absence of the requirements related to the presence of atoms and / or chemical bonds

associated with oxidizing properties in the molecules of the components according to the provisions of

Annex I, Part 2, 2.13.4 of Regulation (EC) 1272/2008 - CLP).

9.2. Other information

VOC (Directive 2010/75/EC): 0 VOC (volatile carbon): 0

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions



Revision nr. 7 Dated 15/01/2018 Printed on 13/06/2018 Page n. 5/8

TC33500 - SODIUM HYDROXIDE 0,1N=N/10=0,1M

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ACUTE TOXICITY

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

SKIN CORROSION / IRRITATION

On the basis of the available data and considering the classification criteria provided in Table 3.2.3 of Annex I, of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

SERIOUS EYE DAMAGE / IRRITATION

On the basis of the available data and considering the classification criteria provided in Table 3.3.3 of Annex I of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

RESPIRATORY OR SKIN SENSITISATION

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

GERM CELL MUTAGENICITY

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

CARCINOGENICITY

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

REPRODUCTIVE TOXICITY

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

STOT - SINGLE EXPOSURE

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

STOT - REPEATED EXPOSURE

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

ASPIRATION HAZARD

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

SECTION 12. Ecological information

12.1. Toxicity

Based on the evaluation of the classification of components and the classification provisions of Annex I, Part 4 of Reg. (CE) 1272/2008 and s.m.i., the mixture is not classified as dangerous for the environment.



Revision nr. 7 Dated 15/01/2018 Printed on 13/06/2018 Page n. 6/8

TC33500 - SODIUM HYDROXIDE 0,1N=N/10=0,1M

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable



Revision nr. 7 Dated 15/01/2018 Printed on 13/06/2018 Page n. 7/8

TC33500 - SODIUM HYDROXIDE 0,1N=N/10=0,1M

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level



Revision nr. 7 Dated 15/01/2018 Printed on 13/06/2018 Page n. 8/8

TC33500 - SODIUM HYDROXIDE 0.1N=N/10=0.1M

- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Information sheet n.7 - 15/01/18.