

### **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

# Nitrogen LR TT

Revision date 06-24-2025 Revision Number 1

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

#### 1.1. Product identifier

Product Code(s) PL151-KUV

Product Name Nitrogen LR TT

Unique Formula Identifier (UFI) DUTF-60HQ-C003-0TF2

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

**Recommended use**Reagent for water analysis

Uses advised against Others

## 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Water-i.d. GmbH Daimlerstr. 20

76344 Eggenstein, Germany

Tel.: +49 (0) 721 78 20 29 0, Fax: +49 (0) 721 78 20 29 11

Website: www.water-id.com

EHS / Compliance: lab@water-id.com

## 1.4. Emergency telephone number

Emergency Telephone +44 1235 239670

English, Albanian, Bosnian, Bulgarian, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish and Ukrainian.

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Corrosive to metals	Category 1 - (H290)

#### 2.2. Label elements



Signal word Danger

#### **Hazard statements**

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

## Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust, fume, gas, mist, vapors and spray

P280 - Wear protective gloves and protective clothing

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

#### 2.3. Other hazards

No information available.

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances

### 3.2 Mixtures

**Chemical nature** 

Aqueous alkaline solution.

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Sodium hydroxide	<1	No data available	215-185-5	Skin Corr. 1A (H314)			
1310-73-2				Met. Corr. 1			

### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate
No information available

	Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Ī	Sodium hydroxide 1310-73-2	325	1350			

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

**Inhalation** Get medical attention immediately if symptoms occur. Remove to fresh air.

Eye contact Call a doctor immediately. IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes.

**Skin contact** If skin irritation persists, call a doctor. Wash off immediately with soap and plenty of water

for at least 15 minutes.

Ingestion Call a doctor. Drink 1 or 2 glasses of water. Do NOT induce vomiting.

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

**Symptoms** Burning sensation.

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

Note to doctors Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Product itself does not burn. Thermal decomposition can lead to release of irritating and

toxic gases and vapours.

Hazardous combustion products Carbon oxides.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal. Soak up with inert

absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety

practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using

this product.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Wear suitable

gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Barrier creams may help to protect the exposed areas of

skin.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

**Exposure Limits**This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Belgium	Bu	Igaria	Croatia
Sodium hydroxide 1310-73-2	•	TWA: 2 mg/m <sup>3</sup> STEL 4 mg/m <sup>3</sup>	-	TWA: 2	2.0 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Es	stonia	Finland
Sodium hydroxide 1310-73-2	•	TWA: 1 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>		1 mg/m <sup>3</sup> : 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Chemical name	France	Germany TRGS	Germany DFG	Gı	reece	Hungary
Sodium hydroxide 1310-73-2	TWA: 2 mg/m <sup>3</sup>	-	-		2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>
Chemical name	Ireland	Italy MDLPS	Italy AIDII	L	atvia	Lithuania
Sodium hydroxide 1310-73-2	STEL: 2 mg/m <sup>3</sup>	-	Ceiling: 2 mg/m <sup>3</sup>	TWA: (	0.5 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	No	orway	Poland
Sodium hydroxide 1310-73-2	-	-	-		-	STEL: 1 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slo	ovenia	Spain
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>		-	STEL: 2 mg/m <sup>3</sup>
Chemical name	Sweden		Switzerland		Uni	ted Kingdom
Sodium hydroxide 1310-73-2		: 1 mg/m³ KGV: 2 mg/m³	TWA: 2 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>		ST	EL: 2 mg/m <sup>3</sup>

### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available.

8.2. Exposure controls

Personal protective equipment

**Eye/face protection** Eye protection must conform to standard EN 166. Wear safety glasses with side shields (or

goggles).

Hand protection Gloves must conform to standard EN 374. Nitrile rubber.

Skin and body protection Long sleeved clothing. Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Wear suitable

gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Barrier creams may help to protect the exposed areas of

skin.

Environmental exposure controls No information available.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearanceaqueous solutionColourcolourlessOdourOdourlessOdour thresholdNo data available

Remarks

Property Values Remarks • Method

Melting point / freezing point~0 °CBoiling point / boiling range~100 °CFlammability (solid, gas)No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point No data available
Autoignition temperature No data available

**Decomposition temperature** 

**pH** > 12

pH (as aqueous solution) No data available

Kinematic viscosity ~1 mm²/s @ 20 °C Dynamic viscosity ~1 mPa s @ 20 °C

Water solubility Soluble in water

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No data available Solubility(ies) Partition coefficient No data available Vapour pressure No data available Relative density No data available **Bulk density** No data available No data available **Liquid Density** No data available Relative vapour density

Particle characteristics

**Particle Size** 

**Particle Size Distribution** 

### 9.2. Other information

9.2.1. Information with regards to physical hazard classes

Not applicable

Not applicable Explosive properties

**Oxidising properties** Not applicable

9.2.2. Other safety characteristics

Sensitivity to mechanical impact None

## SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapours.

## SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

**Product Information** 

Inhalation Specific test data for the substance or mixture is not available.

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**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

#### Numerical measures of toxicity

No information available

## **Acute toxicity**

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg ( Rabbit )	

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause skin irritation.

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			Negative

## Serious eye damage/eye irritation

Causes burns. Risk of serious damage to eyes. Classification based on data available for ingredients.

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute	Rabbit	eye	g 0.00005	hours 24	Eye Damage
Eye Irritation/Corrosion					

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** No information available.

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11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** 

11.2.2. Other information

Other adverse effects None known.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

**Ecotoxicity** Based on available data, the classification criteria are not met.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium hydroxide	-	LC50: =45.4mg/L (96h,	-	-
		Oncorhynchus mykiss)		

### 12.2. Persistence and degradability

Persistence and degradability None known.

12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

12.4. Mobility in soil

Mobility in soil Not expected to adsorb on soil.

#### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This mixture contains no substance considered to be persistent, bioaccumulating or toxic

(PBT).

Chemical name	PBT and vPvB assessment		
Sodium hydroxide	The substance is not PBT / vPvB PBT assessment doe		
·	not apply		

#### 12.6. None known

**Endocrine disrupting properties** 

## 12.7. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers.

Contaminated packaging

Other information

Waste codes should be assigned by the user based on the application for which the product was used.

# **SECTION 14: Transport information**

IATA

14.1 UN number or ID number UN1824

14.2 UN proper shipping name Sodium hydroxide solution

14.3 Transport hazard class(es) 14.4 Packing group Ш 14.5 Environmental hazards No

14.6 Special precautions for user

**Special Provisions** A3, A803 **ERG Code** 8L

**IMDG** 

14.1 UN number or ID number UN1824

14.2 UN proper shipping name Sodium hydroxide solution

14.3 Transport hazard class(es) 14.4 Packing group Ш

Not applicable 14.5 Marine pollutant

**Environmental hazards** No

14.6 Special precautions for user

**Special Provisions** 223 EmS-No F-A, S-B

14.7 Maritime transport in bulk according to IMO instruments

RID

14.1 UN number or ID number UN1824

14.2 UN proper shipping name Sodium hydroxide solution

14.3 Transport hazard class(es) 14.4 Packing group Ш 14.5 Environmental hazards No 14.6 Special precautions for user

**Special Provisions** None Classification code C5

ADR

14.1 UN number or ID number UN1824

14.2 UN proper shipping name Sodium hydroxide solution

14.3 Transport hazard class(es) 14.4 Packing group Ш 14.5 Environmental hazards No

14.6 Special precautions for user

**Special Provisions** None Classification code C5 **Tunnel restriction code** (E)

## SECTION 15: Regulatory information

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

Water hazard class (WGK) non-hazardous to water (nwg)

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

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#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

### Dangerous substance category per Seveso Directive (2012/18/EU)

Non-controlled

#### Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

#### **International Inventories**

**TSCA** Complies **DSL/NDSL** Complies Complies **EINECS/ELINCS** Complies **ENCS IECSC** Complies Complies **KECL PICCS** Complies **AICS** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment is not required for this substance

## **SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H314 - Causes severe skin burns and eye damage

Legend

SVHC: Substances of Very High Concern for Authorisation:

## Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method

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Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 06-24-2025

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**