

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Date of issue: 20.01.2016 Revision date: 14.09.2023 Supersedes version of: 25.05.2022 Version: 1.4

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Name : Nitric acid  
Trade name : NU2031 Nitric acid 67-69% TGR for trace analysis (ppb)  
EC Index-No. : 007-004-00-1  
EC-No. : 231-714-2  
CAS-No. : 7697-37-2  
Product code : NIAC-TGR  
Formula : HNO<sub>3</sub>

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Main use category : Laboratory use

**1.2.2. Uses advised against**

No additional information available

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

labbox labware s.l.  
Migjorn, 1  
P.O. Box Barcelona (SPAIN)  
08338 Premia de Dalt – SPAIN  
ES  
T +34 937 07 79 70 - F +34 937 909 532  
[info@labbox.com](mailto:info@labbox.com) - [www.labbox.com](http://www.labbox.com)

**1.4. Emergency telephone number**

Emergency number : +34 937 077 970 (For technical information\_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Oxidising Liquids, Category 3 H272  
Corrosive to metals, Category 1 H290  
Skin corrosion/irritation, Category 1A H314  
Full text of H and EUH statements: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS03

GHS05

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H272 - May intensify fire; oxidiser.  
H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) :

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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.

EUH-statements

: EUH071 - Corrosive to the respiratory tract.

### 2.3. Other hazards

PBT: not relevant – no registration required

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

#### Component

Nitric acid (7697-37-2)

PBT: not relevant – no registration required

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitric acid	CAS-No.: 7697-37-2 EC-No.: 231-714-2 EC Index-No.: 007-004-00-1	100	Ox. Liq. 3, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Nitric acid	CAS-No.: 7697-37-2 EC-No.: 231-714-2 EC Index-No.: 007-004-00-1	(5 $\leq$ C < 20) Skin Corr. 1B, H314 (20 $\leq$ C $\leq$ 65) Met. Corr. 1, H290 (20 $\leq$ C $\leq$ 65) Skin Corr. 1A, H314 (65 $\leq$ C < 100) Ox. Liq. 3, H272 (65 $\leq$ C < 100) Met. Corr. 1, H290 (65 $\leq$ C < 100) Skin Corr. 1A, H314

Full text of H and EUH statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Get immediate medical advice/attention.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off immediately all contaminated clothing. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Get immediate medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

No additional information available

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Water spray.
Unsuitable extinguishing media	: dry chemical powder.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Reactivity in case of fire	: Reacts violently with (some) metals: release of highly flammable gases/vapours (hydrogen).
Hazardous decomposition products in case of fire	: May release flammable gases.

#### 5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment.
Emergency procedures	: Ventilate area. Stop release.

#### 6.2. Environmental precautions

Do not allow to enter drains or water courses.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage area : Store in a well-ventilated place. Store away from heat.  
Special rules on packaging : Store in a closed container. Keep only in original container.

#### 7.3. Specific end use(s)

Laboratory chemicals.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

NU2031 Nitric acid 67-69% TGR for trace analysis (ppb) (7697-37-2)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Nitric acid
IOEL STEL	2,6 mg/m <sup>3</sup>
IOEL STEL [ppm]	1 ppm
<b>France - Occupational Exposure Limits</b>	
Local name	Acide nitrique
VLE (OEL Ceiling/STEL)	2,6 mg/m <sup>3</sup>
VLE (OEL Ceiling/STEL) [ppm]	1 ppm
Remark	Valeurs règlementaires indicatives
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	Salpetersäure
AGW (OEL TWA) [1]	2,6 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	1 ppm
Remark	EU,13,16
<b>Italy - Occupational Exposure Limits</b>	
Local name	Acido nitrico
OEL STEL	2,6 mg/m <sup>3</sup>
OEL STEL [ppm]	1 ppm
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Ácido nítrico
OEL TWA [ppm]	2 ppm
OEL STEL [ppm]	4 ppm
<b>Spain - Occupational Exposure Limits</b>	
Local name	Ácido nítrico
VLA-EC (OEL STEL)	2,6 mg/m <sup>3</sup>

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VLA-EC (OEL STEL) [ppm]	1 ppm
Remark	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).
United Kingdom - Occupational Exposure Limits	
Local name	Nitric acid
WEL STEL	2,6 mg/m <sup>3</sup>
WEL STEL (ppm)	1 ppm

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

NU2031 Nitric acid 67-69% TGR for trace analysis (ppb) (7697-37-2)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	2,6 mg/m <sup>3</sup>
Long-term - local effects, inhalation	1,3 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - local effects, inhalation	1,3 mg/m <sup>3</sup>
Long-term - local effects, inhalation	0,65 mg/m <sup>3</sup>

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

EN 374.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

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Eye protection			
Type	Field of application	Characteristics	Standard
			EN 166

### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Type	Standard
Protective clothing	

#### Hand protection:

Nitrile rubber (NBR) /

#### Other skin protection

#### Materials for protective clothing:

Wear safety footwear

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow.
Molecular mass	: 63,0119 g/mol
Odour	: strong.
Odour threshold	: 0,29 – 0,98 ppm
Melting point	: -41 °C
Freezing point	: Not available
Boiling point	: 118,2 °C
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 1
Viscosity, kinematic	: Not available
Solubility	: Material highly soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0,12 kPa
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1,5129 Type: 'relative density' Temp.: 20 °C
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

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### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Heat. alkali metals. Bases. Direct sunlight. Moisture. Do not allow contact with air.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Nitrogen oxides.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Nitric acid (7697-37-2)

LC50 inhalation rat (mg/l)	260 mg/m3
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Skin corrosion/irritation : Causes severe skin burns.  
pH: 1

#### Nitric acid (7697-37-2)

pH	1
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Serious eye damage/irritation : Assumed to cause serious eye damage  
pH: 1

#### Nitric acid (7697-37-2)

pH	1
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Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified

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Nitric acid (7697-37-2)	
NOAEL (oral, rat, 90 days)	1500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, gas, 90 days)	2,15 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

Aspiration hazard : Not classified

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Not applicable

#### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Nitric acid (7697-37-2)	
LC50 - Fish [1]	72 mg/l
EC50 - Daphnia [1]	180 mg/l
NOEC chronic fish	97,8 mg/l Test organisms (species): other:Amphiprion ocellaris (anemone fish) Duration: '3 mo'

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Component	
Nitric acid (7697-37-2)	PBT: not relevant – no registration required

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable.

### 12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or rivers.



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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Must follow special treatment according to local regulation.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number or ID number

UN-No. (ADR) : UN 2031  
UN-No. (IMDG) : UN 2031  
UN-No. (IATA) : UN 2031  
UN-No. (ADN) : UN 2031  
UN-No. (RID) : UN 2031

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : NITRIC ACID  
Proper Shipping Name (IMDG) : NITRIC ACID  
Proper Shipping Name (IATA) : Nitric acid  
Proper Shipping Name (ADN) : NITRIC ACID  
Proper Shipping Name (RID) : NITRIC ACID  
Transport document description (ADR) : UN 2031 NITRIC ACID, 8 (5.1), II, (E)  
Transport document description (IMDG) : UN 2031 NITRIC ACID, 8 (5.1), II  
Transport document description (IATA) : UN 2031 Nitric acid, 8 (5.1), II  
Transport document description (ADN) : UN 2031 NITRIC ACID, 8 (5.1), II  
Transport document description (RID) : UN 2031 NITRIC ACID, 8 (5.1), II

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : 8 (5.1)  
Danger labels (ADR) : 8, 5.1



##### IMDG

Transport hazard class(es) (IMDG) : 8 (5.1)  
Danger labels (IMDG) : 8, 5.1



##### IATA

Transport hazard class(es) (IATA) : 8 (5.1)  
Danger labels (IATA) : 8, 5.1



##### ADN

Transport hazard class(es) (ADN) : 8 (5.1)  
Danger labels (ADN) : 8, 5.1

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### RID

Transport hazard class(es) (RID) : 8 (5.1)

Danger labels (RID) : 8, 5.1



### 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : CO1

Limited quantities (ADR) : 1I

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02

Special packing provisions (ADR) : PP81, B15

Mixed packing provisions (ADR) : MP15

Portable tank and bulk container instructions (ADR) : T8

Portable tank and bulk container special provisions (ADR) : TP2

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 85

Orange plates : 

Tunnel restriction code (ADR) : E

EAC code : 2P

APP code : B

#### Transport by sea

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

Special packing provisions (IMDG) : PP81

IBC packing instructions (IMDG) : IBC02

IBC special provisions (IMDG) : B15, B20

Tank instructions (IMDG) : T8

Tank special provisions (IMDG) : TP2

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-Q

Stowage category (IMDG) : D

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Segregation (IMDG) : SG6, SG16, SG17, SG19  
Properties and observations (IMDG) : Colourless liquid.Oxidant; may cause fire in contact with organic materials such as wood, cotton or straw, evolving highly toxic gases (brown fumes). Highly corrosive to most metals. Causes severe burns to skin, eyes and mucous membranes.

### Air transport

PCA Excepted quantities (IATA) : E0  
PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity (IATA) : Forbidden  
PCA packing instructions (IATA) : Forbidden  
PCA max net quantity (IATA) : Forbidden  
CAO packing instructions (IATA) : 855  
CAO max net quantity (IATA) : 30L  
Special provisions (IATA) : A1  
ERG code (IATA) : 8L

### Inland waterway transport

Classification code (ADN) : CO1  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : CO1  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02  
Special packing provisions (RID) : PP81, B15  
Mixed packing provisions (RID) : MP15  
Portable tank and bulk container instructions (RID) : T8  
Portable tank and bulk container special provisions (RID) : TP2  
Tank codes for RID tanks (RID) : L4BN  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE6  
Hazard identification number (RID) : 85

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3.	NU2031 Nitric acid 67-69% TGR for trace analysis (ppb)
3(b)	NU2031 Nitric acid 67-69% TGR for trace analysis (ppb)

##### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

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### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

### 15.1.2. National regulations

#### Germany

- Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).  
Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 2. The following requirement must be observed: Basic requirements for the implementation of the submission (according to § 8 paragraph 1, 3 and 4).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

- SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### Denmark

- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of H- and EUH-statements:	
EUH071	Corrosive to the respiratory tract.
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Liq. 3	Oxidising Liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B

Safety Data Sheet (SDS), EU

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.