according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: **X898** Version: **2.0 en** Replaces version of: 2016-09-08 Version: (1)

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

1.1 Product identifier

Identification of the substance

Article number

Registration number (REACH)

Nitric acid

X898

not relevant (mixture)

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

Identified uses:

laboratory chemical laboratory and analytical use

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone: +49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data : Department Health, Safety and Environment sheet

e-mail (competent person)

: sicherheit@carlroth.de

1.4 Emergency telephone number

Emergency information service

Poison Centre Munich: +49/(0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification acc. to GHS							
Section	Hazard class	Hazard class and cat- egory	Hazard state- ment				
2.13	oxidising liquid	(Ox. Liq. 3)	H272				
2.16	substance or mixture corrosive to metals	(Met. Corr. 1)	H290				
3.1I	acute toxicity (inhal.)	(Acute Tox. 3)	H331				
3.2	skin corrosion/irritation	(Skin Corr. 1A)	H314				
3.3	3.3 serious eye damage/eye irritation (Eye Damage/eye irritation)						

date of compilation: 2016-09-08 Revision: 2018-05-15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

Suppleme	ental hazard information
Code	Supplemental hazard information
EUH071	corrosive to the respiratory tract

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal	word	Danger
Jignui	word	Dunger

Pictograms



Hazard statements

H272	May intensify fire; oxidiser
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H331	Toxic if inhaled

Precautionary statements

Precautionary statements - prevention

P220	Keep/store away from combustible materials.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - response

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin
	with water [or 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/doctor.

Supplemental hazard information

EUH071 Corrosive to the respiratory tract.

Hazardous ingredients for labelling:

Nitric acid ...%

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)

H314 H331	Causes severe skin burns and eye damage. Toxic if inhaled.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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/doctor.
5111074	
EUH071	Corrosive to the respiratory tract.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: **X898** contains:

Nitric acid ...%

2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description of the mixture

Composition/information on ingredients.

Name of sub- stance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms	Specific Conc. Limits
Nitric acid%	CAS No 7697-37-2 EC No 231-714-2 Index No 007-004-00-1 REACH Reg. No 01-2119487297- 23-xxxx	65 - < 70	Ox. Liq. 2 / H272 Met. Corr. 1 / H290 Acute Tox. 3 / H331 Skin Corr. 1A / H314 Eye Dam. 1 / H318 EUH071		Ox. Liq. 2; H272: C ≥ 99% Ox. Liq. 3; H272: 65 % ≤ C < 99% Skin Corr. 1A; H314: C ≥ 20% Skin Corr. 1B; H314: 5% ≤ C < 20% Skin Irrit. 2; H315: 1 % ≤ C < 5% Eye Dam. 1; H318: C ≥ 3% Eye Irrit. 2; H319: 1 % ≤ C < 3%

Remarks

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

Following inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

Following ingestion

Rinse mouth immediately and drink plenty of water. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Call a physician immediately.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Corrosion, Cough, Dyspnoea, Gastric perforation, Pulmonary oedema, Risk of blindness, Methaemoglobinaemia

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Non-combustible. Oxidising property.

Hazardous combustion products

In case of fire may be liberated: nitrogen oxides (NOx)

5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not breathe vapour/spray. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Provide adequate ventilation.

6.2 Environmental precautions

Keep away from drains, surface and ground water. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Handle and open container with care. Clear contaminated areas thoroughly.

• Measures to prevent fire as well as aerosol and dust generation

Take any precaution to avoid mixing with combustibles.

Advice on general occupational hygiene

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well-ventilated place. May cause decomposition by long-term light influence.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

Store locked up.

• Ventilation requirements

Use local and general ventilation.

• Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Cou ntry	Name of agent	CAS No	Nota- tion	Identifi- er	TWA [pp m]	TWA [mg/m ³]	STEL [pp m]	STEL [mg/m ³]	Source
EU	nitric acid	7697-37-2		IOELV			1	2,6	2017/2398/ EU
GB	nitric acid	7697-37-2		WEL			1	2,6	EH40/2005

Notation STEL

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Nitric acid%	7697-37- 2	DNEL	1,3 mg/m³	human, inhalatory	worker (in- dustry)	acute - systemic ef- fects
Nitric acid%	7697-37- 2	DNEL	1,3 mg/m³	human, inhalatory	worker (in- dustry)	chronic - local effects
Nitric acid%	7697-37- 2	DNEL	2,6 mg/m³	human, inhalatory	worker (in- dustry)	acute - local effects

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection. Wear face protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

• type of material

Butyl caoutchouc (butyl rubber), FKM (fluoro rubber)

material thickness

0,7mm

- breakthrough times of the glove material
- >480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: NO-P3 (against nitrous gases and particles, colour code: Blue/White).

Environmental exposure controls

Keep away from drains, surface and ground water.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

information on basic physical and chemica	ai pi opei lies
Appearance	
Physical state	liquid (fluid)
Colour	colourless - light yellow
Odour	stinging
Odour threshold	No data available
Other physical and chemical parameters	
pH (value)	<1 (20 °C)
Melting point/freezing point	-32 °C
Initial boiling point and boiling range	120 – 121 °C
Flash point	not determined
Evaporation rate	no data available
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	
lower explosion limit (LEL)	this information is not available
• upper explosion limit (UEL)	this information is not available
Explosion limits of dust clouds	not relevant
Vapour pressure	9 – 9,5 hPa at 20 °C
Density	1,39 – 1,41 ^g / _{cm³} at 20 °C
Vapour density	This information is not available.
Bulk density	Not applicable
Relative density	Information on this property is not available.
Solubility(ies)	
Water solubility	miscible in any proportion
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	Information on this property is not available.
Decomposition temperature	no data available
Viscosity	not determined
Explosive properties	Shall not be classified as explosive
Oxidising properties	oxidiser
Other information	
There is no additional information.	

9.2

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

SECTION 10: Stability and reactivity

10.1 Reactivity

Oxidising property. Substance or mixture corrosive to metals.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: Amines, Ammonia (NH3), Alkali (lye), Aldehydes, Aniline, Alkali metals, Alcohols, Hydrogen peroxide, Acetone, Formic acid, Dichloromethane, Alkaline earth metal, Acetic anhydride, Metal powder, Nitrile, Reducing agents, Antimony, Hydrazine, Diethyl ether, Formaldehyde, Chlorobenzene, Dioxane, Hydrocarbons, Thiocyanate, Petroleum, Phosphorus trichloride, => Explosive properties

10.4 Conditions to avoid

Direct light irradiation. Keep away from heat.

10.5 Incompatible materials

light metals (due to the release of hydrogen in an acid/alkaline medium), keep away from cellulose

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

• Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Nitric acid%	7697-37-2	inhalation: vapour	2,65 ^{mg} / _l /4h

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

• Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

• If in eyes

causes burns, Causes serious eye damage, risk of blindness

• If inhaled

corrosive to the respiratory tract, cough, Dyspnoea, pulmonary oedema

• If on skin

causes severe burns, causes poorly healing wounds

Other information

Other adverse effects: Methaemoglobinaemia

SECTION 12: Ecological information

12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

12.2 Process of degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

- **12.5 Results of PBT and vPvB assessment** Data are not available.
- 12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

Sewage disposal-relevant information

Do not empty into drains.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Nitric acid 65%, pure

article number: X898

Waste treatment of containers/packagings

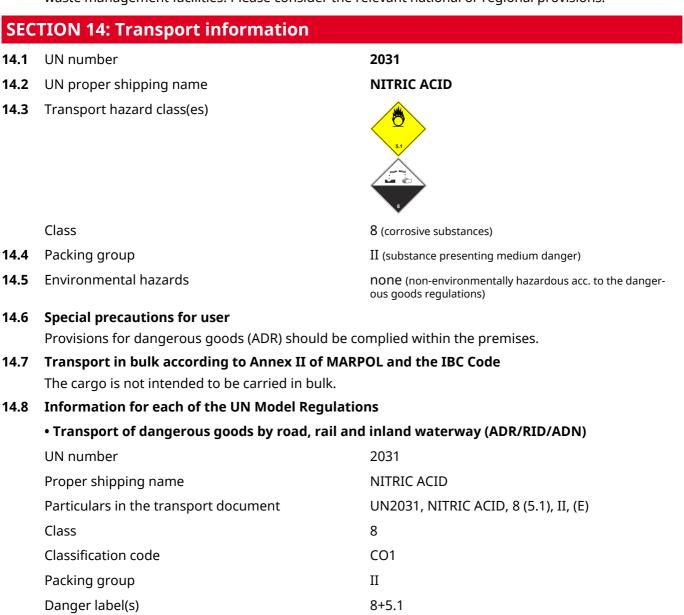
It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.





Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	85
Emergency Action Code	2P
• International Maritime Dangerous Goods Code	(IMDG)
UN number	2031
Proper shipping name	NITRIC ACID
Particulars in the shipper's declaration	UN2031, NITRIC ACID, 8 (5.1), II
Class	8
Subsidiary risk(s)	5.1
Marine pollutant	-
Packing group	II
Danger label(s)	8+5.1
5.1 3	
Special provisions (SP)	-
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1L
EmS	F-A, S-Q
Stowage category	
Segregation group	1 - Acids
International Civil Aviation Organization (ICAO	
UN number	2031
Proper shipping name	Nitric acid
Particulars in the shipper's declaration	UN2031, Nitric acid, 8 (5.1), II
Class	8
Subsidiary risk(s)	5.1
Packing group	II
Danger label(s)	8+5.1
5.1 8	
Special provisions (SP)	A1
Excepted quantities (EQ)	EO

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Nitric acid 65%, pure

article number: X898

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1 **Relevant provisions of the European Union (EU)**

• Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) None of the ingredients are listed.

Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

Regulation 850/2004/EC on persistent organic pollutants (POP)

None of the ingredients are listed.

Restrictions according to REACH, Annex XVII

Name of substance	CAS No	Wt%	Type of registration	Νο
Nitric acid		100	1907/2006/EC annex XVII	3
Nitric acid%		69	1907/2006/EC annex XVII	3

• List of substances subject to authorisation (REACH, Annex XIV)

None of the ingredients are listed.

Seveso Directive

2012/	2012/18/EU (Seveso III)			
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements		Notes
H2	acute toxic (cat. 2 + cat. 3, inhal.)	50 200 41)		41)
P8	oxidising liquids and solids	50	200	55)

Notation

41) - Category 2, all exposure routes

- category 3, inhalation exposure route Oxidising liquids, category 1, 2 or 3, or oxidising solids, category 1, 2 or 3 55)

• Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content

0 %

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content

0%

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

National inventories

Country	National inventories	Status
AU	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
МХ	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
РН	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

Legend

Legena	
AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2		Precautionary statements - response: change in the listing (table)	yes

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
14.3	Transport hazard class(es)	Transport hazard class(es): class 5.1 hazard - oxidizing substances class 8 hazard - corrosive substances	yes
14.8		Marine pollutant: -	yes
14.8		• International Civil Aviation Organization (ICAO-IATA/DGR)	yes
14.8		UN number: 2031	yes
14.8		Proper shipping name: Nitric acid	yes
14.8		Particulars in the shipper's declaration: UN2031, Nitric acid, 8 (5.1), II	yes
14.8		Class: 8	yes
14.8		Subsidiary risk(s): 5.1	yes
14.8		Packing group: II	yes
14.8		Danger label(s): 8+5.1	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Special provisions (SP): A1	yes
14.8		Excepted quantities (EQ): E0	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/2398/E U	Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
Acute Tox.	acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Wa- terways)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

Abbr.	Descriptions of used abbreviations
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	seriously damaging to the eye
Eye Irrit.	irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	indicative occupational exposure limit value
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Met. Corr.	substance or mixture corrosive to metals
NLP	No-Longer Polymer
Ox. Liq.	oxidising liquid
РВТ	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
STEL	short-term exposure limit
TWA	time-weighted average

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Nitric acid 65%, pure

article number: X898

Abbr.	Descriptions of used abbreviations
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative
WEL	workplace exposure limit

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EU GHS) Dangerous Goods Regulations (DGR) for the air transport (IATA)

- -International Maritime Dangerous Goods Code (IMDG)

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H272	may intensify fire; oxidiser
H290	may be corrosive to metals
H314	causes severe skin burns and eye damage
H318	causes serious eye damage
H331	toxic if inhaled

Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.