

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830 Issue date: 12/5/2024 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Nitric acid 65% p. EC Index-No. : 007-030-00-3 EC-No. : 231-714-2 CAS-No. : 7697-37-2 REACH registration No. : 01-2119487297-23

Product code : CL00.1903

Type of product : Solution,EC substance with specific concentration limits for the solution

Formula : HNO3

Synonyms : hydrogen nitrate, 65%≤conc≤70%, aqueous solutions / nitric acid / nitryl hydroxide,

65%≤conc≤70%, aqueous solutions

BIG No : 66841

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemical

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

AnalytiChem Belgium NV Industriezone 'De arend 2' Zedelgem - Belgium Belgium

T +32 50 28 83 20

info.BE@analytichem.com - https://www.analytichem.be

1.4. Emergency telephone number

: +32 50 28 83 20 **Emergency number**

Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 1120 Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

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 Acute toxicity (inhal.), Category 3 H331 Skin corrosion/irritation, Category 1, Sub-Category 1A H314 Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-statements: see section 16

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Hazard statements (CLP) : H272 - May intensify fire; oxidiser.

H290 - May be corrosive to metals.

H331 - Toxic if inhaled.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P260 - Do not breathe dusts or mists.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

EUH-statements : EUH071 - Corrosive to the respiratory tract.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after skin contact

First-aid measures general : Observe (own) safety. If possible, approach victim and check vital functions. In case of

injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation,

possibility of delayed symptoms.

First-aid measures after inhalation : Remove victim into fresh air. Immediately consult a doctor/medical service.

: If possible, wipe up/dry remove chemical. Then rinse/shower immediately for 30 minutes with (lukewarm) water. Cut clothing; never remove burnt clothing from the wound. Do not

give any pain medication. Consult a doctor/medical service.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Consult a doctor/medical service.

First-aid measures after ingestion : Rinse mouth with water. Immediately consult a doctor/medical service. Do not wait for

symptoms to occur to consult Poison Center.

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

Symptoms/effects after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Corrosion of the upper respiratory tract.

Symptoms/effects after skin contact : Caustic burns/corrosion of the skin. Symptoms/effects after eye contact : Corrosion of the eye tissue.

12/5/2024 (Issue date) EN (English) 2/10

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

Symptoms/effects after ingestion : Burns to the gastric/intestinal mucosa. Possible esophageal perforation.

Chronic symptoms : No effects known.

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 : Water. Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher. Quantities of

water

Unsuitable extinguishing media : Foam. Foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: May intensify fire;

oxidiser. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard : DIRECT EXPLOSION HAZARD: No direct explosion hazard. INDIRECT EXPLOSION

HAZARD: Reactions with explosion hazards: see "Reactivity Hazard".

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to

fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Do not move the load if

exposed to heat. Dilute toxic gases with water spray. Take account of toxic/corrosive $\,$

precipitation water. Take account of toxic fire-fighting water.

Protection during firefighting : Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Gloves (EN 374). Face shield (EN 166). Corrosion-proof suit (EN 14605). Large spills/in

enclosed spaces: self-contained breathing apparatus (EN 136 + EN 137). Large spills/in

enclosed spaces: gas-tight suit (EN 943).

Emergency procedures : Mark the danger area. No naked flames. Keep containers closed. Corrosion-proof

appliances. Wash contaminated clothes. Large spills/in confined spaces: consider

evacuation.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, collect/pump into suitable containers. Plug the leak, cut off the

supply. Dam up the liquid spill. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapour with water curtain. Heat exposure: dilute toxic

gas/vapour with water spray. Take account of toxic/corrosive precipitation water.

Methods for cleaning up : Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite or processing the same of the

: Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

12/5/2024 (Issue date) EN (English) 3/10

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed Precautions for safe handling

: Evaporates little, spraying readily produces toxic levels.

: Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply

with the legal requirements. Remove contaminated clothing immediately. Clean

contaminated clothing. Keep the substance free from contamination. Keep container tightly closed. Use corrosionproof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Never dilute by pouring water to the acid. Always add

the acid to the water.

Hygiene measures : Observe very strict hygiene - avoid contact.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials : May be corrosive to metals.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. reducing agents. (strong) bases.

metals. organic materials. cellulosic materials. water/moisture.

Storage area : Meet the legal requirements. Aboveground. Store in a cool area. Store in a dry area. Store

in a dark area. Keep container in a well-ventilated place. Fireproof storeroom. Store only in a limited quantity. Provide for a tub to collect spills. Keep out of direct sunlight. Keep only in

the original container. Keep locked up.

Special rules on packaging : SPECIAL REQUIREMENTS: closing, hermetical, clean, opaque, dry, correctly labelled.

meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: glass. MATERIAL TO AVOID: stainless steel. aluminium. synthetic

material.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):





Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

8.2.2.1. Eye and face protection

Eye protection:

Combined eye and respiratory protection

8.2.2.2. Skin protection

Skin and body protection:

Corrosion-proof clothing (EN 14605)

Hand protection:

Protective gloves against chemicals (EN 374)

Other skin protection

Materials for protective clothing:

Excellent resistance: Butyl rubber. Good resistance: Polyvinylchloride (PVC). Less resistance: Polyethylene/ethylenevinylalcohol. Poor resistance: neoprene (chloroprene rubber). Nitrile rubber. Polyethylene. Polyvinylalcohol (PVA). natural fibres

8.2.2.3. Respiratory protection

Respiratory protection:

Full face mask with filter type B. High vapour/gas concentration: self-contained breathing apparatus (EN 136 + EN 137)

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: LiquidAppearance: Liquid.Molecular mass: 63.01 g/molColour: Colourless.

Odour : Characteristic odour. Asphyxiating odour.

Odour threshold : No data available

pH : <

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -32 °C

Freezing point : No data available
Boiling point : 122 °C
Flash point : Not applicable
Auto-ignition temperature : Not applicable

Decomposition temperature : No data available in the literature

Flammability (solid, gas) : No data available Vapour pressure : 4 hPa (20 °C, 70 %)

Relative vapour density at 20°C : 2.2

Relative density : 1.41 (20 $^{\circ}$ C, 70 $^{\circ}$)

Density : 1.39 g/ml

Solubility : Exothermically soluble in water. Soluble in ether.

Water: > 100 g/100ml (20 °C)

Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : No data available in the literature

Viscosity, dynamic : 2 mPa·s (20 °C, 70 %)

Explosive properties : Not classified.

Oxidising properties : May intensify fire; oxidiser. Explosive limits : No data available Particle size : Not applicable (liquid)

9.2. Other information

VOC content : Not applicable (inorganic)

12/5/2024 (Issue date) EN (English) 5/10

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

Other properties : Gas/vapour heavier than air at 20°C. Hygroscopic. Acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

May be corrosive to metals. Reacts violently with (some) metals. Violent to explosive reaction with many compounds e.g.: with (strong) reducers, with (some) bases, with organic material and with combustible materials with risk of spontaneous ignition. Decomposes on exposure to temperature rise: oxidation which increases fire hazard. Concentrated solution reacts exothermically with water (moisture).

10.2. Chemical stability

Unstable on exposure to light. Hygroscopic.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Decomposes slowly on exposure to light: release of toxic and corrosive gases/vapours (nitrous vapours). Violent to explosive reaction with (some) metal powders: release of highly flammable gases/vapours (hydrogen). Decomposes on exposure to temperature rise: release of toxic and corrosive gases/vapours (nitrous vapours).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Toxic if inhaled.

Nitric acid 65% p. (7697-37-2)	
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns.

pH: < 1

Serious eye damage/irritation : Causes serious eye damage.

pH: < 1 : Not classified

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

Nitric acid 65% p. (7697-37-2)

Viscosity, kinematic No data available in the literature

Potential adverse human health effects and Causes severe skin burns, Toxic if inhaled, Corrosive to the respiratory tract, Causes serious symptoms eye damage.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC)

No 1272/2008.

Ecology - air None of the known components is included in the list of substances which may contribute to

the greenhouse effect (IPCC). None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573). Not classified as dangerous

for the ozone layer (Regulation (EC) No 1005/2009). Harmful to fishes. May cause eutrophication. pH shift.

Ecology - water

Hazardous to the aquatic environment, short-term

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Not classified

Not rapidly degradable

12.2. Persistence and degradability

Nitric acid 65% p. (7697-37-2)	
Persistence and degradability	Biodegradability: not applicable.

12.3. Bioaccumulative potential

Nitric acid 65% p. (7697-37-2)	
Bioaccumulative potential	Does not contain bioaccumulative component(s).

12.4. Mobility in soil

Nitric acid 65% p. (7697-37-2)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the component(s) available.

12.5. Results of PBT and vPvB assessment

Nitric acid 65% p. (7697-37-2)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Do not discharge into drains or the environment. Dispose of at authorized waste collection point. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

Additional information

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

12/5/2024 (Issue date) EN (English) 7/10

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830 $\,$

SECTION 14: Transport information

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

IMDG	IATA	ADN	RID
14.1. UN number			
UN 2031	UN 2031	UN 2031	UN 2031
g name			
nitric acid	nitric acid	nitric acid	nitric acid
Transport document description			
UN 2031 nitric acid, 8 (5.1), II	UN 2031 nitric acid, 8 (5.1),	UN 2031 nitric acid, 8 (5.1),	UN 2031 nitric acid, 8 (5.1),
lass(es)			
8 (5.1)	8 (5.1)	8 (5.1)	8 (5.1)
8 6.1	8 5.1	8 5.1	8
II	II	II	II
ards			
Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
ii	UN 2031 g name nitric acid ption UN 2031 nitric acid, 8 (5.1), II lass(es) 8 (5.1) II ards Dangerous for the environment: No	UN 2031 UN 2031 UN 2031 g name nitric acid ption UN 2031 nitric acid, 8 (5.1), II	UN 2031 UN 2031 UN 2031 UN 2031 UN 2031 UN 2031 Itric acid nitric acid nitric acid nitric acid ption UN 2031 nitric acid, 8 (5.1), UN 2031 nitric acid, 8 (5.1), II II II II II II II II II

14.6. Special precautions for user

Overland transport

Transport regulations (ADR) : Subject to the provisions

Classification code (ADR) : CO1
Hazard identification number (Kemler No.) : 85

Hazard identification number (Kemler No.) : 85
Orange plates :

85 2031

Tunnel restriction code (ADR) : E

Transport by sea

Transport regulations (IMDG) : Subject to the provisions

EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-Q

Air transport

Transport regulations (IATA) : Subject to the provisions

Inland waterway transport

Classification code (ADN) : CO1
Carriage permitted (ADN) : T

Rail transport

Transport regulations (RID) : Subject to the provisions

Classification code (RID) : CO1

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

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

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)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : Not applicable (inorganic)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 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

No additional information available

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.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
Ox. Liq. 3	Oxidising Liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

Safety Data Sheet (SDS), EU

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.