

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

- 1. Identification of the substance/mixture and of the company/undertaking
- 1.1 Product identifier

Trade name/designation	Nitric acid 69%
Product No.	PRD5703
Substance name	Nitric acid 69%
CAS No.	7697-37-2
INDEX no.	007-004-00-1
REACH registration No.	Not yet communicated down the supply chain.
other means of identification	
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- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - Relevant identified uses

for laboratory use and chemical production.

1.3 Details of the supplier of the safety data sheet

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Supplier (manufacturer/importer/only representative/downstream user/distributor)

Better Equipped, Wrenbury Business Park, Wrenbury Road, Wrenbury, Nantwich, Cheshire, CW5 8EB, UK Telephone +44 (0) 800 9707142 Fax +44 (0) 800 066 4443 E-mail address sales@betterequipped.co.uk

1.4 Emergency telephone

Telephone

+44 (0)1270 781238

- 2. Hazards identification
- 2.1 Classification of the substance or mixture

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

hazard classes and hazard categories	Hazard Statements	classification procedure	remark
Oxidising liquid, category 3	H272		

Skin corrosion, category 1A H314	Skin corrosion, category 1A	H314		
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2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols:	R-phrases
С	R35

2.2 Label elements

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



Signal word

Danger

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

Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P309+P310	IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

2.2.2 Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols:

С

R-phrases	
R35	Causes severe burns.

S-phrases

	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3 Other hazards

none

3. Composition/ Information on ingredients

Hazardous ingredients:

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

Substance name	CAS No.	EC No	concentration	hazard classes and hazard categories
Nitric acid fuming 100% (SVHC = No)	7697-37-2	231-714-2		H272 - Oxidising liquid, category 3, H314 - Skin corrosion, category 1A

Hazardous ingredients:

Classification according to 67/548/EEC

Substance na	me	CAS No.	EC No	concentration	Hazard symbols:	R- phrases
Nitric acid fumin 100%	g 76	697-37-2	231-714-2	50,00 - 70,00%	O, C	8-35

Molecular formula	HNO ₃
Molecular weight (g/mol)	63.01 g/mol
CAS No.	7697-37-2
EC No	231-714-2
INDEX no.	007-004-00-1

4. First-aid measures

4.1 General information

IF exposed: Immediately call a POISON CENTER or doctor/ physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

4.2 After inhalation

Immediately call a POISON CENTER or doctor/ physician. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

4.3 In case of skin contact

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

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

4.5 After ingestion

Immediately call a POISON CENTER or doctor/ physician. Do not induce vomiting. Rinse mouth thoroughly with water. Give nothing to eat or drink.

4.6 Self-protection of the first aider

First aider: Pay attention to self-protection!

4.7 Information to physician:

Symptoms	No data available
Hazards	No data available
Treatment	No data available

- 5. Firefighting measures
- 5.1 Suitable extinguishing media

The product itself does not burn. May intensify fire; oxidiser. Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Extinguishing media which must not be used for safety reasons:

no restriction

5.3 Special hazards arising from the substance or mixture

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

5.4 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

5.5 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. Use personal protection equipment. In case of major fire and large quantities: Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Prevent spread over a wide area (e.g. by containment or oil barriers). Soak up inert absorbent and dispose as waste requiring special attention.

6.4 Additional information

Clear spills immediately.

7. Handling and storage

7.1 Precautions for safe handling

Avoid: Inhalation. Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Protect from moisture.

7.2 Conditions for safe storage, including any incompatibilities

storage temperature

Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

No data available

8. Exposure controls / Personal protection

8.1 Control parameters

Ingredient (Designation)	Limit value type (country of origin):	Limit value	Regulatory information
Nitric acid fuming 100%	STEL (EU)	1 ppm, 2.6 mg/m3	2006/15/EC

8.2 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

8.3 Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

8.3.1 Eye / face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

8.3.2 Skin protection

15-25°C

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact	
Suitable material:	No data available
Thickness of the glove material	No data available
Breakthrough time (maximum wearing time)	No data available
Recommended glove articles	No data available
By long-term hand contact	
Suitable material:	No data available
Thickness of the glove material	No data available
Breakthrough time (maximum wearing time)	No data available
Recommended glove articles	No data available

8.3.3 Protective clothing

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

8.3.4 Respiratory protection

Respiratory protection necessary at: aerosol or mist formation.

Suitable respiratory protection apparatus:	No data available
Recommendation	No data available
Suitable material:	No data available
Recommendation	No data available

8.4 Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance Physical state Colour	liquid No data available
(b) Odour (c) Odour threshold	No data available No data available
Safety relevant basic data	

(h) Evaporation rate (i) Flammability (solid, gas) (j) Upper/lower flammability or explosive limits	No data available not applicable
Lower explosion limit (Vol-%)	No data available
Upper explosion limit (Vol-%)	No data available
(k) Vapour pressure	No data available
(I) Vapour density	No data available
(m) Relative density	1.42 g/cm ³ (20°C)
(n) Solubility(ies)	2
Water solubility (g/l)	No data available
at °C:	
Soluble (g/l) in	No data available
(o) Partition coefficient: n-octanol/water	No data available
(p) Auto-ignition temperature	No data available
(q) Decomposition temperature	No data available
(r) Viscosity	
Kinematic viscosity	No data available
Dynamic viscosity	No data available
(s) Explosive properties	not applicable
(t) Oxidising properties	May intensify fire; oxidiser.
9.2 Other information	

Bulk densityNo data availablerefraction indexNo data availabledissociation constantNo data availableSurface tensionNo data availableHenry constantNo data available

10. Stability and reactivity

10.1 Reactivity

Oxidising agent, strong Corrosive to metals

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Explosive when mixed with combustible material. Explosive reaction with: Alkali metals Alkaline earth metal Alkali (lye) Substance, organic Reducing agent Peroxide Oil Violent reaction with: light metals Powdered metals Formation of: Hydrogen Exothermic reaction with: Water

10.4 Conditions to avoid

Humidity Heating

10.5 Incompatible materials

Metal.

10.6 Hazardous decomposition products

10.7 Additional information

No data available

11. Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity	
Effective dose	LDLo: 430 mg/kg
species:	human
Exposure time	
remark	anhydrous
source	Sax
Acute dermal toxicity	
Effective dose	No data available
species:	No data available
Exposure time	
remark	
source	
Acute inhalation toxicity	
Effective dose	No data available
species:	No data available
Exposure time	
remark	
source	
Irritant and corrosive effects	
Primary irritation to the skin	
Exposure time	
species:	
Result	
Irritation to eyes	
Exposure time	
species:	
Result	
Irritation to respiratory tract	
Exposure time	
species:	
Result	

Sensitisation

In case of skin contact After inhalation not sensitising. not sensitising.

Specific target organ toxicity (single exposure)

not relevant

Specific target organ toxicity (repeated exposure)

not relevant

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No indication of human carcinogenicity.

Germ cell mutagenicity/Genotoxicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

Aspiration hazard

not relevant

11.2 Other adverse effects

No data available

11.3 Additional information

No data available

12. Ecological information

12.1 Ecotoxicity

Acute (short-term) fish toxicity LC50: EC50 species: Exposure time

No data available

Chronic (long-term) fish toxicity LC50: EC50 species: Exposure time	No data available	
Acute (short-term) daphnia toxicity LC50: EC50 species: Exposure time	No data available	
Chronic (long-term) daphnia toxicity LC50: EC50 species: Exposure time	No data available	
Acute (short-term) algae toxicity LC50: EC50 species: Exposure time	No data available	
Chronic (long-term) algae toxicity LC50: EC50 species: Exposure time	No data available	
12.2 Persistence and degradability		
No data available		
12.3 Bioaccumulative potential		
(o) Partition coefficient: n-octanol/wate	r	No data available
12.4 Mobility in soil		
No data available		
12.5 Results of PBT assessment		
No data available		
12.6 Other adverse effects		
No data available		

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13. Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Send to a hazardous waste incinerator facility under observation of official regulations.

Waste code product

06 01 05 (nitric acid and nitrous acid)

Appropriate disposal / Package

13.2 Additional information

No data available

14. Transport information

14.1 Land transport (ADR/RID)

UN-No. Proper Shipping Name Class(es) Classification code: Packing group Hazard label(s)	2031 NITRIC ACID 8 CO1 II 8
14.2 Sea transport (IMDG)	
UN-No. Proper Shipping Name Class(es) Classification code: Packing group Marine pollutant Segregation group	2031 NITRIC ACID 8 CO1 II
14.3 Air transport (ICAO-TI / IATA-DGR)	
UN-No. Proper Shipping Name Class(es) Classification code: Packing group	2031 NITRIC ACID 8 CO1 II
14 4 Additional information	

No data available

15. Regulatory information

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

Water hazard class (WGK)

15.2 Chemical Safety Assessment

No data available

16. Other information

16.1 Relevant R-, H- and EUH-phrases (Number and full text)

R35	Causes severe burns.	

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

16.2 Additional information

Indication of changes

general update

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.