

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

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

· **1.1 Product identifier**

· **Trade name:** **TENSACID MM**

· **Article number:** 99980001705

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

No further relevant information available.

· **Application of the substance / the mixture**

Acidic cleaning product for use in food industry.

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

· **Manufacturer/Supplier:** Tensio
Doornpark 36
9120 Beveren
Belgium
Tel.: +32 3 755 48 74
Fax.: +32 3 755 51 55
e-mail: info@tensio.be

· **Further information obtainable from:**

Product Safety Departement: SDS@tensio.be

· **1.4 Emergency telephone number:**

België / Belgique: Antigifcentrum / Centre Antipoison : +32 70 245 245

Nederland: Nationaal Vergiftigingen Informatie Centrum : +31 30 274 88 88

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

+3237554874

* **2 Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 1 H330 Fatal if inhaled.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· **2.2 Label elements**

· **Labelling according to**

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 1)

· **Hazard pictograms**



GHS05 GHS06

· **Signal word**

Danger

· **Hazard-determining components of labelling:**

nitric acid
sulphuric acid
phosphoric acid

· **Hazard statements**

H330 Fatal if inhaled.
H314 Causes severe skin burns and eye damage.

· **Precautionary statements**

P260 Do not breathe dusts or mists.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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.
P320 Specific treatment is urgent (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** *Not applicable.*

· **vPvB:** *Not applicable.*

* **3 Composition/information on ingredients**

· **3.2 Mixtures**

· **Description:** *Mixture of substances listed below with nonhazardous additions.*

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 2)

Dangerous components:

CAS: 7697-37-2 EINECS: 231-714-2 Reg.nr.: 01-2119487297-23-XXXX	nitric acid ⚠ Flam. Liq. 2, H225; ⚠ Ox. Liq. 2, H272; ⚠ Acute Tox. 1, H330; ⚠ Skin Corr. 1A, H314, EUH071 Specific concentration limits: Ox. Liq. 2; H272: C ≥ 99 % Ox. Liq. 3; H272: 70 % ≤ C < 99 %	25–50%
CAS: 7664-93-9 EINECS: 231-639-5	sulphuric acid ⚠ Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %	≥10–<15%
CAS: 7664-38-2 EINECS: 231-633-2 Reg.nr.: 01-2119485924-24-XXXX	phosphoric acid ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	≥2.5–<10%

Additional information:

For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures
General information:

Immediately remove any clothing soiled by the product.
 Remove breathing equipment only after contaminated clothing have been completely removed.
 In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air or oxygen; call for doctor.
 In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: burns, pain, redness.

Eye contact: lesions, irritations, pain, tearing, redness.

Inhalation: malaise, dizziness

Ingestion: burns, irritation, pain.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 3)

- **4.3 Indication of any immediate medical attention and special treatment needed** *Treat symptomatically. An eyewash is recommended in the immediate work area.*

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** *Use fire extinguishing methods suitable to surrounding conditions.*
- **5.2 Special hazards arising from the substance or mixture** *During heating or in case of fire poisonous gases are produced.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Mouth respiratory protective device.*

* **6 Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** *Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.*
- **6.2 Environmental precautions:** *Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:** *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.*
- **6.4 Reference to other sections** *See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.*

* **7 Handling and storage**

- **7.1 Precautions for safe handling** *Do not seal receptacles gas-tight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Prevent formation of aerosols.*

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 4)

- **Information about fire - and explosion protection:** *Keep respiratory protective device available.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *Store in a cool location.*
- **Information about storage in one common storage facility:** *Store away from reducing agents.*
- **Further information about storage conditions:** *Keep container tightly sealed.*
- **7.3 Specific end use(s)** *No further relevant information available.*

8 Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 7697-37-2 nitric acid (25–50%)

WEL (Great Britain)	Short-term value: 2.6 mg/m ³ , 1 ppm
IOELV (EU)	Short-term value: 2.6 mg/m ³ , 1 ppm

CAS: 7664-93-9 sulphuric acid (≥10–<15%)

WEL (Great Britain)	Long-term value: 0.05* mg/m ³ *mist: defined as thoracic fraction
IOELV (EU)	Long-term value: 0.05 mg/m ³

CAS: 7664-38-2 phosphoric acid (≥2.5–<10%)

WEL (Great Britain)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³
IOELV (EU)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³

- **Additional information:** *The lists valid during the making were used as basis.*

· **8.2 Exposure controls**

· **Appropriate engineering controls**

No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

*Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.*

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 5)

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Tightly sealed goggles

9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

- | | |
|-------------------------------------------------------------------|-----------------|
| · Physical state | Fluid |
| · Colour: | Colourless |
| · Odour: | Pungent |
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Undetermined. |
| · Boiling point or initial boiling point and boiling range | Undetermined. |
| · Flammability | Not applicable. |
| · Lower and upper explosion limit | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Flash point: | Not applicable. |
| · Decomposition temperature (SADT): | Not determined. |
| · pH at 20 °C | <1 |
| · Viscosity: | |
| · Kinematic viscosity | Not determined. |
| · Dynamic: | Not determined. |

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 6)

- **Solubility**
- **water:** Fully miscible.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure at 20 °C:** 23 hPa
- **Density and/or relative density**
- **Density at 20 °C:** 1.38 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.

- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent content:**
- **VOC (EC)** 0.00 %
- **Change in condition**
- **Evaporation rate** Not determined.

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

10 Stability and reactivity

- **10.1 Reactivity** No further relevant information available.

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 7)

- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with alkali (lyes).
Reacts with reducing agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Fatal if inhaled.

· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	20,400 mg/kg (rat)
Inhalative	LC50/ 4h	0.135 mg/l

CAS: 7697-37-2 nitric acid

Oral	LD50	mg/kg (rat)
Inhalative	LC50/ 4h	0.05 mg/l (ATE)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 8)

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

The surfactants ingredients of the product are biodegradable according to the requirements of regulation 648/2004/EC.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

· **Recommended cleansing agents:**

Water, if necessary together with cleansing agents.

14 Transport information

· **14.2 UN proper shipping name**

· **ADR**

UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, SULPHURIC ACID)

· **IMDG, IATA**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, SULPHURIC ACID)

· **Class**

8 Corrosive substances.

· **Label**

8

· **ADR, IMDG, IATA**

II

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No

· **14.6 Special precautions for user**

Warning: Corrosive substances.

· **Hazard identification number (Kemler code): 80**

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 9)

· EMS Number:	F-A,S-B
· Segregation groups	(SGG1) Acids
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	E
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, SULPHURIC ACID), 8, II

15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· **Regulated explosives precursors**

CAS: 7697-37-2	nitric acid	3%
CAS: 7664-93-9	sulphuric acid	15%
CAS: 7664-38-2	phosphoric acid	30%

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Labelling according to**

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS05 GHS06

(Contd. on page 11)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 10)

· Signal word	<i>Danger</i>
· Hazard-determining components of labelling:	<i>nitric acid sulphuric acid phosphoric acid</i>
· Hazard statements	<i>H330 Fatal if inhaled. H314 Causes severe skin burns and eye damage.</i>
· Precautionary statements	<i>P260 Do not breathe dusts or mists. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. 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. P320 Specific treatment is urgent (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</i>
· Directive 2012/18/EU	
· Named dangerous substances - ANNEX I	<i>None of the ingredients is listed.</i>
· 15.2 Chemical safety assessment:	<i>A Chemical Safety Assessment has not been carried out.</i>

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases	<i>H225 Highly flammable liquid and vapour. H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H319 Causes serious eye irritation. H330 Fatal if inhaled. EUH071 Corrosive to the respiratory tract.</i>
· Contact:	<i>Wim Lampaert MSc Chemistry</i>
· Abbreviations and acronyms:	<i>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</i>

(Contd. on page 12)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.02 (replaces version 2.01)

Revision: 25.01.2024

Trade name: TENSACID MM

(Contd. of page 11)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2

Ox. Liq. 2: Oxidizing liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 1: Acute toxicity – Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

*** Data compared to the
previous version altered.**