Sunchem AB

SAFETY DATA SHEET

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

Salpetersyra/Salpetersyre/Nitric acid 65-70%

SECTION 1. Identification of the substance/mixture and of the company

1.1 Product identifier Salpetersyra/Salpetersyre/Nitric Acid 65-70%

1.2 Relevant identified uses of the product and uses advised against

Intended use: Professional use. Electronics chemical.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Sunchem AB
Postadress: Box 69
SE - 433 21 Partille
Land: Sverige
Telefon +46-31-447310

E-mail: purchasing@sunco.se

1.4 Telephone emergency number:

In case of emergency, contact toxicological information, emergency tel 112.
For non-emergency poison information, see:
http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

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 (Category 3: inhalation), H331
Skin Corrosion/irritation ((Category 1B); H314
Serious eye damage/eye irritation (Category 1), H318

2.2 Label elements

Classification according to regulation (EC) No. 1272/2008 (CLP)

Pictogram(s)

Signal word Danger

Hazard statements

H272	May intensify fire: oxidizer.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
EUH071	Corrosive to the respiratory tract.

Precautionary statements

P210 - Keep away from heat, open flames, hot surfaces, sparks. No smoking.
P220 - Keep/Store away from clothing, combustible materials.
P260 - Do not breathe vapours, gas.
P264 - Wash hands thoroughly after handling. Rinse skin with water/shower.
P280 - Wear protective clothing, protective gloves, eye protection, face protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep 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/doctor
P501 - Dispose of contents/container to an approved waste disposal plant

Contains Nitric acid (65-70%).

2.3 Other hazards

This mixture does not contain any substances that meets the criteria for PBT or vPvB in accordance with Regulation (EC) No. 1907/2006, Annex XIII.

This mixture does not contain substances at ≥ 0,1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commision.

SECTION 3. Composition/information on ingredients

3.2 Mixtures

Declaration of components according to Regulation (EC) No. 1272/2008

Chemical name	CAS No. EC No.	REACH Reg. No. Index No.	Conc. %	Classification
Nitric acid	7697-37-2 231-714-2	01-2119487297-23 007-004-00-1	65 - 70	Ox. Liq 2; H272 Skin Corr 1A; H314 Acute Tox 3; H331

Specific concentration limits of classification (CLP):

Nitric acid
(5 =<C < 20) Skin Corr. 1B, H314
(C >= 20) Skin Corr. 1A, H314

(65 =<C < 99) Ox. Liq. 3, H272
(C >= 99) Ox. Liq. 2, H272

For full text of the H-statements see section 16 "Other information".

SECTION 4. First aid measures

4.1 Description of first aid measures

General: In the least doubt or if symptoms persist, seek medical attention.

Inhalation: Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

Skin contact: Wash with plenty of soap and water. Take off immediately all contaminated clothing. Get medical attention if any discomfort continues. Chemical burns must be treated by a physician. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.

Eye contact: Get medical advice/attention if you feel unwell. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion: DO NOT induce vomiting. Get medical attention immediately. Rinse nose, mouth and throat with water. Drink plenty of water. Get medical attention immediately!. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	:	Toxic if inhaled. Corrosive to the respiratory tract.
Symptoms/effects after skin contact	:	Causes severe skin burns and eye damage.
Symptoms/effects after eye contact	:	Causes serious eye damage.
Symptoms/effects after ingestion	:	If ingested may cause corrosion of gastrointestinal tract.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment. Consult a doctor and show this safety data sheet.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use water fog, alcohol resistant foam, powder, or carbon dioxide.

Unsuitable extinguishing media: Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Non flammable. May intensify fire; oxidiser.

Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Very corrosive gases/vapours/fumes. Nitrogen oxides.

5.3 Advice to firefighters

Do not enter fire area without proper personal protective equipment, including respiratory protection.
Exercise caution when fighting any chemical fire. Containers close to fire should be removed immediately or cooled with water. Fight fire remotely due to the risk of explosion.

Protection during firefighting	: Wear self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes. Use personal protective equipment as required. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

Wear appropriate personal protective equipment - see Section 8.
Keep public away from danger area.

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 Environmental precautions

Avoid discharges to soil, water or air. Prevent discharges into sewers.

6.3 Methods and material for containment and cleaning up

Dispose of at a licensed waste collection centre.
Take up liquid spill into absorbent material. Post clean with water. Never pour spill back in original packaging for reuse.
Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

See Section 8 for personal protection and Section 13 for disposal considerations, respectively.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Corrosive storage. Hazardous waste due to potential risk of explosion.

Do not breathe vapours, mist.

Avoid spilling, skin and eye contact.. Use only well-ventilated area. Ensure adequate ventilation. NEVER pour water into this substance; when dissolving or diluting always add it slowly to the water.

Hygiene measures:
Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Comply with applicable regulations.

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materilas: Bases.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits
The national occupational exposure limit values that correspond to Union occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Commission Decision 2014/113/EU(5);

Substances	ppm	mg/m^3	Interval	Category	Notes
Nitric acid	-	-	8 hours	TWA	
Nitric acid	1	2,6	15 minutes	STEL	

DNEL

Nitric acid
General population:
Long-term, local, inhalation : 1,3 mg/m^3
Short-term, local, inhalation : 1,3 mg/m^3

Workers:
Long-term, local, inhalation : 2,6 mg/m^3
Short-term, local, inhalation : 2,6 mg/m^3

8.2 Exposure control

Assigned personal protection equipment is a guideline. A risk assessment of actual risks may lead to other requirements.

8.2.1 Engineering controls

Work in a well-ventilated area. Mechanical ventilation of local exhaust may be required.
Eye wash facilities and emergency shower must be available when handling this product.

8.2.2 Personal protection

Do not eat, drink or smoke when using this product. Wash hands after handling.

8.2.2.1 Eye protection

Wear protective googles according EN standard 166.

8.2.2.2 Hand protection

Use protective gloves according EN standard 374. Recommended glove barrier materials include nitrile rubber and butyl rubber:
Layer thickness: Nitrile/Neoprene rubber: >0,45 mm. Breakthrough time: >480 minutes.
Layer thickness: Butyl rubber: >0,35 mm. Breakthrough time: >480 minutes.

Skin protection

In case of handling large quantities or in the event of spatter, wear protective clothes, i.e. an apron.

8.2.2.3 Respiratory protection

In case of inadequate ventilation, respiratory protection according EN standard 149 and EN 14387 (full-face mask with gas filter type B/P2) or breathing apparatus may be required.

8.2.2.4 Thermal hazard

No thermal hazard.

8.3 Environmental exposure control

See Section 6.2.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a	**Physical state**	Liquid
b	**Colour**	Yellow
c	**Odour/odour threshold**	Stinging
d	**Melting point/Freezing point**	-41°
e	**Initial boiling point/boiling range**	122°C
f	**Flammability (solid, gas)**	No data available/not applicable
g	**Lower and upper explosion limit**	No data available/not applicable
h	**Flash point**	No data available/not applicable
i	**Auto-ignition temperature**	No data available/not applicable
j	**Decomposition temperature**	No data available/not applicable
k	**pH**	<1
l	**Kinematic viscosity**	No data available/not applicable
m	**Solubility**	Very soluble in water

n	**Partition coefficient (n-octanol/water)**	No data available/not applicable
o	**Vapour pressure**	0,94 kPa
p	**Density and/or relative density**	1,41 g/cm^3
q	**Relative vapour density**	2,2
r	**Particle characteristics**	No data available/not applicable

9.2 Other information

9.2.1 Information with regard to physical hazard classes

a	**Explosives**	No data available/not applicable
b	**Flammable gases**	No data available/not applicable
c	**Aerosols**	No data available/not applicable
d	**Oxidising gases**	May occur
e	**Gases under pressure**	No data available/not applicable
f	**Flammable liquids**	No data available/not applicable
g	**Flammable solids**	No data available/not applicable
h	**Self-reactive substances and mixtures**	No data available/not applicable
i	**Pyroforic liquids**	No data available/not applicable
j	**Pyroforic solids**	No data available/not applicable
k	**Self-heating substances and mixtures**	No data available/not applicable
l	**Substances and mixtures, with emit flammable gases in contact with water**	No data available/not applicable
m	**Oxidising liquids**	Yes oxidizing liquid
n	**Oxidising solids**	No data available/not applicable
o	**Organic peroxides**	No data available/not applicable
p	**Corrosive to metals**	No data available/not applicable
q	**Desensitised exploxives**	No data available/not applicable

No more specific or information about safety characteristics.

SECTION 10. Stability and reactivity

10.1 Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2 Chemical stability

Stable under recommended storage and usage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. NEVER add water to acid!

10.4 Conditions to avoid

Heat. Contact with incompatible materials.

10.5 Incompatible materials

Bases. Combustible material. Reducing Agents. Metals. Alcohols.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Thermal decomposition generates : Corrosive vapours.

SECTION 11. Toxicological information

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

No toxicological tests have been performed on the product. The product is classified as toxic if inhaled.

Estimated value of **ATE**:
ATE oral: > 2000 mg/kg
ATE dermal: >2000 mg/kg
ATE inandning: 2-4 mg/l

General toxicological information

Hazardous components CAS no.	Value Type	Value	Route of exposure	Exposure time	Species	Method
Nitric acid	LC50	2,65 mg/l	Inhalation	4h/ vapour	Rat	

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity:	Toxic if inhaled.
Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation:	Causes serious eye damage.
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT – single exposure:	Not classified (corrosive to the respiratory tract)
STOT – repeated exposure:	Not classified
Aspiration hazard:	Not classified

11.2 Information on other hazards

This mixture does not contain substances at ≥ 0,1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commision.

SECTION 12. Ecological information

12.1 Toxicity

Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of

harmful effects to aquatic organisms. Not regarded as dangerous to the environment. This does not, however, rule out the possibility that large or frequent smaller emissions of the product may be harmful to the environment.

Hazardous components CAS no.	Value Type	Value	Route of Exposure	Exposure Time	Species	Method
Nitric acid	LC50	72 mg/l	Vatten	96 h	Fish	

12.2 Persistence and degradability

Components are biodegradable

12.3 Bioaccumulative potential

No bioaccumulation Log Pow: not determined.

Nitric acid	Log Pow	-2,3

12.4 Mobility in soil

Components are water soluble and may spread in water system and soil.

12.5 Results of PBT and vPvB assessment

The substance/mixture does not fulfil the criteria to be identified as PBT substance or vPvB substance.

12.6 Endocrine disrupted properties

This mixture does not contain substances at ≥ 0,1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commision.

12.7 Other adverse effects

No data available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Dispose according to Directive 2008/98/EC on waste (Waste Framework Directive) and in compliance with local and national legislation. Do not allow to enter sewers. Transfer to a waste container and send for destruction.

Packaging may still contain hazardous residues and disposal should be undertaken by a licensed waste contractor. Any disposal practice must comply with local and national laws and regulations.

Suggested EWC codes

06 01 05* Nitric acid and Nitrous acid

SECTION 14. Transport information

14.1 UN number

ADR	2031
RID	2031
IMDG	2031
ICAO/IATA	2031

14.2 UN proper shipping name

ADR	NITRIC ACID
RID	NITRIC ACID
IMDG	NITRIC ACID
ICAO/IATA	NITRIC ACID

14.3 Transport hazard class(es)

ADR	8 (5.1)
RID	8 (5.1)
ADN	8 (5.1)
IMDG	8 (5.1)
ICAO/IATA	8 (5.1)

14.4 Packaging group

ADR	II
RID	II
IMDG	II
ICAO/IATA	II

14.5 Environmental hazards

ADR	NO
RID	NO
IMDG	NO
ICAO/IATA	NO

14.6. Special precautions for user

- Overland transport

Limited quantities (ADR) : 1l

Excepted quantities (ADR) : E2

Hazard identification number (Kemler No.) : 85

Orange plates :

: 2P

EAC code : B

APP code

- Transport by sea : F-A

EmS-No. (Fire)

EmS-No. (Spillage) : S-Q

- Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Forbidden
Special provisions (IATA) : A1

Rail transport

No data available

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

Regulation (EC) No 1272/2008 (CLP) of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures. Latest update of legal requirements 23/10/2024 of CLP regulation.

Regulation (EC) No 1907/2006 (REACH) of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EU) 2020/878 of the European Commission, supplement for REACH appendix II.

The national occupational exposure limit values that correspond to Union occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Commission Decision 2014/113/EU(5); EH40/2005: Workplace exposure limits updates 2020.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Version: 5.2
New EU regulations (REACH/CLP) according SDS content/sections/tables and new SDS from raw data.

Explanations to abbreviations in Section 3

Acute Tox 3	Acute toxicity, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2
Ox. Liq. 3	Oxidising Liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H272	May intensify fire; oxidiser.

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
EUH071	Corrosive to the respiratory tract.

Explanations to abbreviations in Section 14

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
RID	Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by rail)
IMDG	IMDG code (International Maritime Dangerous Goods Code)
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	International Air Transport Association

This safety data sheet has been produced and reviewed by Chemgroup Scandinavia AB.