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/UNDERTAKING

1.1. Product identifier

Product name : Salpetersyra/Salpetersyre/Nitric a

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

Main use category : Professional use

Use of the substance/mixture : Production

Uses advised against

No additional information available

1.3.Details of the supplier of the safety data sheet

Supplier
Sunchem AB
Box 69
S-433 21 Partille Sweden
T +46 31 447310 - F +46 31 449581
E-mail: d.s@sunco.se

Manufacturer
Sunchem AB
Box 69
S-433 21 Partille Sweden
T +46 31 447310 - F +46 31 449581
E-mail: d.s@sunco.se

Contact person : Dick Sundström

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H

SECTION 2: HAZARDS IDENTIFICATION

2.1.Classification of the substance or mixture

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

Ox. Liq. 3	H272
Acute Tox. 3	H331
Skin Corr. 1A	H314
Eye Dam. 1	H318

Full text of H statements : see section 16

EUH071: Corrosive to the respiratory tract

2.2. Label elements

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

Hazard pictograms (CLP) :

Signal word (CLP) : Danger

Hazardous ingredients : Nitric acid

Hazard statements (CLP) : H272 - May intensify fire; oxidiser.
H314 - Causes severe skin burns and eye damage.
H331 - Toxic if inhaled.

EUH071: Corrosive to the respiratory tract

Precautionary statements (CLP) : 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.
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

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
nitric acid (Note B)	(CAS-No.) 7697-37-2 (EC-No.) 231-714-2 (EC Index-No.) 007-004-00-1	64 - 69.9	Ox. Liq. 2, H272 Skin Corr. 1A, H314 Acute Tox 3, H331

	(REACH-no) 01-2119487297-23		

Specific concentration limits:

Name	Product identifier	Specific concentration limits
nitric acid	(CAS-No.) 7697-37-2 (EC-No.) 231-714-2 (EC Index-No.) 007-004-00-1 (REACH-no) 01-2119487297-23	(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

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : Wash with plenty of soap and water. Take off immediately all contaminated clothing. Chemical burns must be treated by a physician. Immediately call a POISON CENTER/doctor.

First-aid measures after eye contact : Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : DO NOT induce vomiting. Get medical attention immediately. Rinse nose, mouth and throat with water. Drink plenty of water. Do not give victim anything to drink if he is unconscious. Chemical burns must be treated by a physician. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects : Causes severe skin burns and eye damage. Symptoms of poisoning may not appear for several hours.

Symptoms/effects after inhalation : Corrosive to the respiratory tract.

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

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

Chemical burns must be treated by a physician. In case of accident or if you feel unwell, take contact with doctor and show this safety data sheet.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Unsuitable extinguishing media : Avoid water in straight hose stream; will scatter and spread fire.

5.2.Special hazards arising from the substance or mixture

Fire hazard : 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 for firefighters

Firefighting instructions : 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

General measures : Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes. Do not breathe vapour. Use personal protective equipment as required. No open flames. No smoking.

For non-emergency personnel

Protective equipment : Wear appropriate personal protective equipment - see Section 8.

For emergency responders

Protective equipment : 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 release to the environment.

6.3.Methods and material for containment and cleaning up

For containment : Collect all waste in suitable and labelled containers and dispose according to local legislation.

Methods for cleaning up : Take up liquid spill into absorbent material. Post clean with water. Never pour spill back in original packaging for reuse.

6.4. Reference to other sections

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Additional hazards when processed : Corrosive storage. Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Ensure adequate ventilation. Avoid spilling, skin and eye contact. Avoid inhalation of vapours. Never add water to acid!. Do not breathe vapours, mist.

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.

Storage conditions : 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 materials : Bases. Heat sources. combustible materials.

7.3. Specific end use(s)

No additional data.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Nitric acid (7697-37-2)		
United Kingdom	Local name	Nitric acid
United Kingdom	WEL STEL (mg/m³)	2.6 mg/m³
United Kingdom	WEL STEL (ppm)	1 ppm

8.2. Exposure controls

Appropriate engineering controls : Eye wash facilities and emergency shower must be available when handling this product.

Personal protective equipment : Gloves. Protective goggles.

Hand protection : Wear suitable gloves. Viton. 4H. Neoprene. Butyl rubber. Breakthrough time : 6 (> 480 minutes). Layer thickness : 0,2 - 0,4 mm. STANDARD EN 374.

Eye protection : Chemical goggles or face shield. STANDARD EN 166.

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Use respiratory equipment with gas filter, type B. EN 14387

Other information : Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1.Information on basic physical and chemical properties

Physical state : Liquid

Colour : Yellow.

Odour : Stinging.

Odour threshold : Not determined.

pH : < 1

Relative evaporation rate (butylacetate=1) : Not determined.

Melting point : Not determined.

Freezing point : -41 °C

Boiling point : 122 °C

Flash point : Not determined.

Auto-ignition temperature : Not determined.

Decomposition temperature : Not determined.

Flammability (solid, gas) : Non flammable.

Vapour pressure	:	0.94 kPa
Relative vapour density at 20 °C	:	2.2
Relative density	:	Not determined.
Density	:	1.41 g/cm³ @ 20 °C
Solubility	:	Very soluble in water. Water: 1000 g/l
Log Pow	:	Not determined.
Viscosity, kinematic	:	Not determined.
Viscosity, dynamic	:	Not determined.
Explosive properties	:	Product is not explosive.
Oxidising properties	:	May intensify fire; oxidiser.
Explosive limits	:	Not determined.

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use. May intensify fire; oxidiser.

10.3.Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat and direct sunlight. Direct sunlight. Heat. Sparks. Overheating. Open flame.

10.5. Incompatible materials

Strong oxidising agents. Strong acids.

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 toxicological effects

Acute toxicity : Toxic if inhaled.

ATE $_{inhalation}$: 1-2 mg/l

nitric acid (7697-37-2)	
LC50 inhalation rat (Vapours - mg/l/4h)	0.18 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: < 1

Serious eye damage/irritation : Causes serious eye damage.

pH: < 1

Respiratory or skin sensitisation : Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Based on available data, the classification criteria are not met Corrosive to the respiratory tract.

STOT-repeated exposure : Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general : The product may affect the acidity (pH-factor) in water with 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.

nitric acid (7697-37-2)	
LC50 fish 1	72 mg/l (96 hours - Gambusia affinis - Mosquito fish)

12.2.Persistence and degradability

Nitric acid 70%	
Persistence and degradability	Componet(s) are biodegradable.

12.3. Bioaccumulative potential

Nitric acid 70%	
Log Pow	Not determined.
Bioaccumulative potential	Not potentially bioaccumulable.
nitric acid (7697-37-2)	
Log Pow	-2.3

12.4. Mobility in soil

Nitric acid 70%

Ecology - soil	The product is water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Nitric acid 70%
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

Other adverse effects : None to our knowledge.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Regional legislation (waste) : Dispose as hazardous waste.

Waste treatment methods : Do not discharge into drains.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to an approved waste disposal plant.

Additional information : The given LoW-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code. Clean up even minor leaks or spills if possible without unnecessary risk.

European List of Waste (LoW) code : 06 01 05* - Nitric acid and Nitrous acid

SECTION 14: TRANSPORT INFORMATION

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
2031	2031	2031	2031	2031
14.2. UN proper shipping name				
NITRIC ACID	NITRIC ACID	NITRIC ACID	NITRIC ACID	NITRIC ACID
Transport document description				
UN 2031 NITRIC ACID, 8 (5.1), II, (E)	UN 2031 NITRIC ACID, 8 (5.1), II			
14.3. Transport hazard class(es)				
8 (5.1)	8 (5.1)	8 (5.1)	8 (5.1)	8 (5.1)
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

	Marine pollutant : No			
No supplementary information available				

14.6. Special precautions for user

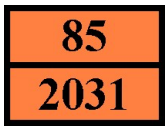
- Overland transport

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.Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IBC code : No IBC-code for bulk transport offshore (MARPOL).

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations

EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Data sources : EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

Full text of H- and EUH-statements:

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.

The information in this safety data sheet is based on information from the manufacturer/supplier, present european and national legislation, and presupposes that the product is used within the specified area of application.