

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))  
SOCOSURF A 1858 - P61858A****Safety Data Sheet dated 24/8/2017, version 4****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name: SOCOSURF A 1858  
MSDS code: P61858A

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

Recommended use:

Deoxidizer  
Industrial uses  
Professional uses

Uses advised against:

Professional uses

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

Company:

SOCOMORE S.A.S.

Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France

Tel : +33 (0)2 97 43 76 83 - Fax : +33 (0)2 97 54 20 26

Distributor: Socomore GmbH - c/o MAZARS GmbH - Theodor-Stern-Kai 1 - 60596 Frankfurt -  
Deutschland - Tel: +49 (0)89 20 70 28 83 - Fax: +49 (0) 89 88 91 98 16Distributor: Socomore Iberia - Calle Diputació, 260 - 08007 Barcelona - Espana - Tel: +34 917  
693 962 - Fax: +34 902 908 966Distributor: MagChem Inc. 1271, rue Ampère, suite 101, Boucherville, QC, J4B 5Z5 Canada -  
Tel: 1-450 641 8500 - Fax: 1-450 655 1717Distributor: Socomore Trading Shanghai - 355 East Kang Qiao Road - Kang Qiao Industrial Zone  
- Pudong - 201315 Shanghai - Tel: 862158131133 - Fax: 862158131933Dystrybutor : SOCOMORE SPzoo - Ul. Piekna 18, 00-549 Warszawa Polska - Tel : +48 608 454  
114 - Fax : +48 (22) 621 61 09Distributor/Manufacturer: Socomore Ireland Ltd. - Meenane, Watergrasshill, Co. Cork, Ireland -  
Tel +353 21 4889922 / Fax +353 21 4889923 / ireland@socomore.com

Competent person responsible for the safety data sheet:

techdirsocomore@socomore.com

**1.4. Emergency telephone number**

France : ORFILA (INRS) +33 (0)1 45 42 59  
International : CHEMTEL +1-813-248-0585.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****EC regulation criteria 1272/2008 (CLP)**

- ⚠ Warning, Acute Tox. 4, Harmful if inhaled.
- ⚠ Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
- ⚠ Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

**2.2. Label elements**

Hazard pictograms:

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Danger

Hazard statements:

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P280 Wear protective gloves/protective clothing/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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/ doctor/if you feel unwell.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

nitric acid ...%

sulphuric acid ...%

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

**2.3. Other hazards**

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

N.A.

**3.2. Mixtures**

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 30% - < 40%	sulphuric acid ...%	Index number: CAS: EC: 016-020-00-8 7664-93-9 231-639-5	⚠ 3.2/1A Skin Corr. 1A H314
>= 15% - < 20%	nitric acid ...%	Index number: CAS: EC: REACH No.: 007-004-00-1 7697-37-2 231-714-2 01-	⚠ 2.13/2 Ox. Liq. 2 H272 ⚠ 3.1/3/Inhal Acute Tox. 3 H331 ⚠ 3.2/1A Skin Corr. 1A H314 EUH071

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**SECTION 4: First aid measures****4.1. Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Burning sensation.

Redness.

Small amounts splashed in the eyes may cause irreparable tissue damage and blindness.

Tearing.

Burns of the mouth.

Abdominal pain.

Risk of respiratory tract irritation.

Cough

**4.3. Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Use extinguishing media appropriate for the surrounding materials.

Extinguishing media which must not be used for safety reasons:

None in particular.

**5.2. Special hazards arising from the substance or mixture**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

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#### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

#### 7.3. Specific end use(s)

None in particular

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

sulphuric acid ...% - CAS: 7664-93-9

- OEL Type: National - TWA(8h): 0.05 mg/m<sup>3</sup> - STEL: 3 mg/m<sup>3</sup> - Notes: France VLEI

- OEL Type: National - TWA(8h): 5.2 mg/m<sup>3</sup> - Notes: Germany - Notes DFG

- OEL Type: EU - TWA(8h): 0.05 mg/m<sup>3</sup> - STEL: 0.1 mg/m<sup>3</sup> - Notes: thoracic fraction

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- OEL Type: ACGIH - TWA(8h): 0.2 mg/m<sup>3</sup> - Notes: (T), A2(M) - Pulm func
- OEL Type: National - TWA(8h): 0.1 mg/m<sup>3</sup> - Notes: TRGS 900 - Germany
- nitric acid ...% - CAS: 7697-37-2
  - OEL Type: National - TWA(8h): 5 mg/m<sup>3</sup>, 2 ppm - STEL: 10 mg/m<sup>3</sup>, 4 ppm - Notes: France VLEI
  - OEL Type: National - TWA(8h): 5.2 mg/m<sup>3</sup> - Notes: Germany - Notes DFG
  - OEL Type: EU - STEL: 2.6 mg/m<sup>3</sup>, 1 ppm
  - OEL Type: ACGIH - TWA(8h): 2 ppm - STEL: 4 ppm - Notes: URT and eye irr, dental erosion

**DNEL Exposure Limit Values**

sulphuric acid ...% - CAS: 7664-93-9

Worker Industry: 0.05 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 0.1 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

nitric acid ...% - CAS: 7697-37-2

Worker Industry: 2.6 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 1.3 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

**PNEC Exposure Limit Values**

sulphuric acid ...% - CAS: 7664-93-9

Target: Fresh Water - Value: 0.0025 mg/l

Target: Marine water - Value: 0.00025 mg/l

Target: Freshwater sediments - Value: 0.002 mg/kg

Target: Marine water sediments - Value: 0.002 mg/kg

Target: Microorganisms in sewage treatments - Value: 8.8 mg/l

**8.2. Exposure controls**

See below, example of PPE to use.

Eye protection:

Safety goggles (EN 166)

Face protection shield.

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Chemical protection clothing. (type 3 - EN14605)

Chemical protection clothing. (type 6 - EN13034)

Boots.

Protection for hands:

Suitable gloves type: NF EN374

NR (natural rubber, natural latex).

NBR (nitrile rubber).

PVC (polyvinyl chloride).

Butyl rubber (isobutylene-isoprene copolymer)

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

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None

Appropriate engineering controls:

None

**SECTION 9: Physical and chemical properties**

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

Properties	Value	Method:	Notes
Appearance and colour:	Clear colourless to yellow liquid	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	1	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	118.6°C	--	--
Flash point (°C):	N.A.	--	--
Flash Point (°F):	N.A.	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	liquid
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	>20.012 hPa, 20°C	--	calculated
Vapour density:	<1.9591	--	calculated
Relative density:	1.425	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-	N.A.	--	--

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octanol/water):			
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

Volatile Organic compounds - VOCs = 0 g/l

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under normal conditions

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions**

None

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

Metals.

**10.6. Hazardous decomposition products**

None.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

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sulphuric acid ...% - CAS: 7664-93-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2140 mg/kg

Test: LC50 - Route: Inhalation Dust - Species: Rat = 0.375 mg/l - Duration: 4h

Test: LC50 - Route: Inhalation Vapour - Species: Rat < 0.5 mg/l

Test: LD50 - Route: Oral - Species: Mouse = 0.85 mg/l

Test: LC50 - Route: Inhalation Mist - Species: Rat = 0.375 mg/l - Duration: 4h

Test: LC50 - Route: Inhalation Dust - Species: Mouse = 0.600 mg/l - Duration: 8h

Test: LC50 - Route: Inhalation Mist - Species: Mouse = 0.600 mg/l - Duration: 8h

i) STOT-repeated exposure:

Route: Inhalation - Species: Rat = 0.3 mg/m<sup>3</sup> - Source: NOAEC

nitric acid ...% - CAS: 7697-37-2

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 1.56 mg/l - Duration: 4h

g) reproductive toxicity:

Test: Reproductive Toxicity - Route: Oral - Species: Rat > 1500 mg/kg - Duration: 28 jr

i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat = 1500 mg/kg

If not specified in other sections, the information required in Regulation (EU)2015/830 listed below must be considered as not relevant.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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**SECTION 12: Ecological information****12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

sulphuric acid ...% - CAS: 7664-93-9

a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Algae = 0.13 mg/l

Endpoint: LC50 - Species: Fish > 16 mg/l - Duration h: 96 - Notes: Lepomis macrochirus

Endpoint: EC50 - Species: Daphnia = 29 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus

Endpoint: LC50 - Species: Daphnia > 100

Endpoint: LC50 - Species: Fish = 82 mg/l - Duration h: 24

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 0.025 mg/l - Duration h: 1560 - Notes: Jordanella floridae



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Endpoint: NOEC - Species: Daphnia = 0.15 mg/l - Notes: Tanytarsus

Tanytarsus dissimilis

c) Bacteria toxicity:

Endpoint: NOEC - Species: bacteria = 26.000 mg/l - Duration h: 888 - Notes: Boue activée  
 nitric acid ...% - CAS: 7697-37-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 180 mg/l - Duration h: 48

**12.2. Persistence and degradability**

N.A.

**12.3. Bioaccumulative potential**

N.A.

**12.4. Mobility in soil**

N.A.

**12.5. Results of PBT and vPvB assessment**

vPvB Substances: None - PBT Substances: None

**12.6. Other adverse effects**

No harmful effects expected.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions.  
 In so doing, comply with the local and national regulations currently in force.

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

06 01 99 wastes not otherwise specified

**SECTION 14: Transport information**



**14.1. UN number**

ADR-UN Number: 1796

IATA-UN Number: 1796

IMDG-UN Number: 1796

**14.2. UN proper shipping name**

ADR-Shipping Name: NITRATING ACID MIXTURE with not more than 50% nitric acid

IATA-Shipping Name: NITRATING ACID MIXTURE with not more than 50% nitric acid

IMDG-Shipping Name: NITRATING ACID MIXTURE with not more than 50% nitric acid

**14.3. Transport hazard class(es)**

ADR-Class: 8

ADR - Hazard identification number: 80

IATA-Class: 8

IATA-Label: 8

IMDG-Class: 8

**14.4. Packing group**

ADR-Packing Group: II

IATA-Packing group: II

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IMDG-Packing group: II

#### 14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

#### 14.6. Special precautions for user

ADR-Subsidiary risks: -

ADR-S.P.: -

ADR-Transport category (Tunnel restriction code): 2 (E)

IATA-Passenger Aircraft: Forbidden

IATA-Subsidiary risks: -

IATA-Cargo Aircraft: 855

IATA-S.P.: A1

IATA-ERG: 8L

IMDG-EmS: F-A , S-B

IMDG-Subsidiary risks: -

IMDG-Stowage and handling: Category D SW2

IMDG-Segregation: -

Q.L.: 1L

Q.E.: E2

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

N.A.

## SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

N.A.

Restrictions related to the substances contained:

N.A.

Listed or in compliance with the following international inventories:

TSCA - Toxic Substances Control Act

Labelling of detergents (EC Regulations 648/2004 and 907/2006):

N.A.

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Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

**15.2. Chemical safety assessment**

No

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**SECTION 16: Other information**

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:

H314 Causes severe skin burns and eye damage.

H272 May intensify fire; oxidiser.

H331 Toxic if inhaled.

EUH071 Corrosive to the respiratory tract.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of  
Dangerous Goods by Road.

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

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of  
Chemicals.

IATA: International Air Transport Association.

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IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
STOT SE:	May cause drowsiness or dizziness
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.