1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NALFLEET® 79125 SAFE ACID

APPLICATION: ACID CLEANER

COMPANY IDENTIFICATION: NALCO EUROPE B.V.
Postbus 627
2300 AP Leiden, The Netherlands

EMERGENCY TELEPHONE NUMBER(S): See section 16, for Emergency Telephone Numbers.

Date issued: 16.04.2007
Version Number: 2.0

COMPANY CONTACT TELEPHONE NUMBERS.
NALCO EUROPE B.V. +31 71 5241 100
NALCO AB (SE) +46 (0)8-50074000
NALCO ANADOLU KIMYA (TR) +90 216 5743464
NALCO APPLIED SERVICES OF EUROPE BV +31 (0)73 6456980
NALCO BELGIUM N.V./S.A. (B) +32 (0)3-450 69 10
NALCO DANMARK A/S +45-48195800
NALCO DEUTSCHLAND GmbH (D) +49 (0)69-79340
NALCO ESPANOLA S.A. (E) +34 93-4095555
NALCO FINLAND OY (FI) +358 (0)9 2517 4700
NALCO FRANCE SAS +33 (0)3 20 11 70 00
NALCO HELLAS S.A. (GR) +30 210 238 9620
NALCO ITALIANA S.R.L. (I) +39 06-542971
NALCO LIMITED +44 (0)1606 74488
NALCO NETHERLANDS B.V. +31 (0)13-5952200

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is classified as dangerous in accordance with the Preparations Directive 1999/45/EC.

<table>
<thead>
<tr>
<th>Hazardous Substance(s)</th>
<th>EINECS / ELINCS NO</th>
<th>CAS NO</th>
<th>SYMBOL</th>
<th>R-PHRASES / NOTAS</th>
<th>% (w/w)</th>
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<tbody>
<tr>
<td>Sulfamic Acid</td>
<td>226-218-8</td>
<td>5329-14-6</td>
<td>Xi</td>
<td>R36/38, R52/53</td>
<td>60 - 100</td>
</tr>
</tbody>
</table>

Refer to Section 16 for descriptions of relevant risk phrases and Notas.

3. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION:

This product is classified as dangerous in accordance with the Preparations Directive 1999/45/EC.
Irritating to eyes and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

HUMAN HEALTH HAZARDS - ACUTE:

INHALATION:
Not a likely route of exposure. No adverse effects expected. Elevated temperatures or mechanical action may form vapors, mists or fumes which may be irritating to the eyes, nose, throat and lungs.

SKIN CONTACT:
Can cause moderate irritation.

EYE CONTACT:
Irritating, and may injure eye tissue if not removed promptly.

INGESTION:
Not a likely route of exposure. There may be irritation to the gastro-intestinal tract.

HUMAN HEALTH HAZARDS - CHRONIC:
No adverse effects expected other than those mentioned above.

PHYSICAL AND CHEMICAL HAZARDS:
Gives off hydrogen by reaction with metals.

4. FIRST AID MEASURES

INHALATION:
Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

SKIN CONTACT:
Flush affected area with water. If symptoms develop, seek medical advice.

EYE CONTACT:
Flush affected area with water. Get medical attention.

INGESTION:
Get medical attention. Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If reflexive vomiting occurs, rinse mouth and repeat administration of water.

NOTE TO PHYSICIAN:
Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT:
Not applicable

EXTINGUISHING MEDIA:
Not expected to burn. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD:
Not flammable or combustible.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:
In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP:
Sweep up and shovel. Reclaim into recovery or salvage drums. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS:
Do not contaminate surface water.

7. HANDLING AND STORAGE

HANDLING:
Do not get in eyes, on skin, on clothing. Do not take internally. Gives off hydrogen by reaction with metals. Use with adequate ventilation. Avoid generating dusts. Keep the containers closed when not in use. Ensure all containers are labeled.

STORAGE CONDITIONS:
Store in suitable labeled containers. Store the containers tightly closed. Keep in dry place.

SUITABLE CONSTRUCTION MATERIAL:
Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

SPECIFIC USE(S):
ACID CLEANER
For specific dosages and customized applications please contact your representative.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS
This product does not contain any substance that has an established exposure limit.

ENGINEERING MEASURES:
General ventilation is recommended. Local exhaust ventilation may be necessary when dusts or mists are generated.

PERSONAL PROTECTION

GENERAL ADVICE:
The use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum precaution that safety glasses with
side-shields and workclothes protecting arms, legs and body be used. In addition any person visiting an area where this product is handled should at least wear safety glasses with side-shields. The applicable European standard can be found in EN 166.

RESPIRATORY PROTECTION:
No exposure limits have been assigned to this product or its components. Nalco recommend the use of a half face filter mask or air supplied breathing apparatus. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: A-B-E-K-P. The applicable European standard can be found in EN 140, EN 137, EN 143 and EN 14387. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND PROTECTION:
When handling this product, the use of chemical gauntlets is recommended. The choice of work glove depends on work conditions and what chemicals are handled, but we have positive experience under light handling conditions using gloves made from PVC. Gloves should be replaced immediately if signs of degradation are observed. Breakthrough time not determined as preparation, consult PPE manufacturers. The applicable European standard can be found in EN 374.

SKIN PROTECTION:
When handling this product, the use of overalls, a chemical resistant apron and rubber boots is recommended. A full slicker suit is recommended if gross exposure is possible. The applicable European standard can be found in EN ISO 20345.

EYE PROTECTION:
When handling this product, the use of safety glasses with side shields is recommended. The applicable European standard can be found in EN 166.

HYGIENE RECOMMENDATIONS:
Use good work and personal hygiene practices to avoid exposure. Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

ENVIRONMENTAL EXPOSURE CONTROL PRECAUTIONS:
Consider the provision of containment around storage vessels.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICAL STATE</td>
<td>Crystalline</td>
</tr>
<tr>
<td>APPEARANCE</td>
<td>Blue Green</td>
</tr>
<tr>
<td>ODOR</td>
<td>Characteristic</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>Not applicable</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>2.15</td>
</tr>
<tr>
<td>BULK DENSITY</td>
<td>1.27 kg/m³</td>
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<tr>
<td>SOLUBILITY IN WATER</td>
<td>Complete</td>
</tr>
<tr>
<td>pH (1%)</td>
<td>1.2</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>Decomposes 205 °C</td>
</tr>
</tbody>
</table>

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Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY

STABILITY:
Stable under normal conditions.

HAZARDOUS POLYMERIZATION:
Hazardous polymerization will not occur.

CONDITIONS TO AVOID:
Moisture  Freezing temperatures.

MATERIALS TO AVOID:
Strong Bases, Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS:
Under fire conditions: Oxides of nitrogen, Oxides of sulfur, ammonia
Decomposes Gives off hydrogen by reaction with metals.

11. TOXICOLOGICAL INFORMATION

The following results are for the product.

ACUTE ORAL TOXICITY:
Species  LD50  Test Descriptor
Rat  3,160 mg/kg  Product

SENSITIZATION:
This product is not expected to be a sensitizer.

CARCINOGENICITY:
None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

For additional information on the hazard of the preparation, please consult section 3 and 12.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS:
No toxicity studies have been conducted on this product.

MOBILITY:
The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;
Air          | Water        | Soil/Sediment
---          | ---          | ---
<5%         | 30 - 50%     | 30 - 50%

The portion in water is expected to be soluble or dispersible.

BIOACCUMULATION POTENTIAL
This preparation or material is not expected to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

If this preparation becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code. Use only authorized contractors. Ensure compliance with EC, national and local regulations.

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage. This product is ashless and can be burned directly in appropriate equipment. Any chemical waste is a potential environmental pollutant and is NOT suitable for disposal via ground, municipal sewers, drains, natural streams or rivers.

Empty drums should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor.

EUROPE WASTE CODE:
16 03 03* - OFF SPECIFICATION BATCHES AND UNUSED PRODUCTS - Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT
Proper Shipping Name : SULPHAMIC ACID, MIXTURE, SOLID
Technical Name(s) :
UN/ID No : UN 2967
Hazard Class - Primary : 8
Packing Group : III
ADR/RID H.l.n. : 80
CLASSIFICATION CODE : C2

AIR TRANSPORT (ICAO/IATA)
Proper Shipping Name : SULPHAMIC ACID, MIXTURE, SOLID
Technical Name(s) :
UN/ID No : UN 2967
Hazard Class - Primary : 8
Packing Group : III
IATA Cargo Packing Instructions : 823
IATA Cargo Aircraft Limit : 100 KG (Max net quantity per package)
IATA Passenger Packing Instructions : Y822 / 822
IATA Passenger Aircraft Limit : 5 KG / 25 KG
MATERIAL SAFETY DATA SHEET

PRODUCT
NALFLEET® 79125 SAFE ACID

EMERGENCY TELEPHONE NUMBER(S)
See section 16, for Emergency Telephone Numbers.

MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name : SULPHAMIC ACID, MIXTURE, SOLID
Technical Name(s) : NALCO EUROPE B.V.
Postbus 627 • 2300 AP Leiden • The Netherlands • +31 71 5241 110

UN/ID No : UN 2967
Hazard Class - Primary : 8
Packing Group : III

OTHER APPLICABLE INFORMATION
CEFIC TREM CARD REFERENCE : 80GC2-II+III
EMERGENCY ACTION CODE : 2Z

15. REGULATORY INFORMATION

CLASSIFICATION AND LABELLING :


HAZARD SYMBOLS

IRRITANT

Contains: Sulfamic Acid

RISK PHRASES
R36/38 - Irritating to eyes and skin.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES
S22 - Do not breathe dust.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of water.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

PRODUCT REGISTRATION NUMBER
Denmark 1788216
Norway 053568

INTERNATIONAL CHEMICAL CONTROL LAWS
EUROPE
The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.
The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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Nalco is committed to and fully supports the Registration, Evaluation, Authorization and restriction of CHemicals (REACH) regulation. It is our intention to pre-register all chemical substances that we manufacture or import into European Union and to work with our suppliers to ensure a smooth transition to this new regulatory environment. Should you require any further information on Nalco's REACH programme please contact us at reach@nalco.com or visit our website.

UNITED STATES
The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

16. OTHER INFORMATION

LIST OF RELEVANT R-PHRASES AND NOTAS IN SECTION 2
R36/38 - Irritating to eyes and skin.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- REVISED INFORMATION: section(s):
- 3
- 7
- 10

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

EMERGENCY TELEPHONE NUMBER(S)

<table>
<thead>
<tr>
<th>Country</th>
<th>Phone Number</th>
</tr>
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<tbody>
<tr>
<td>Trans-European</td>
<td>+32-(0)3-575-5555</td>
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<tr>
<td>Belgium / Luxembourg</td>
<td>+32-(0)3-575-0330</td>
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<tr>
<td>Czech Republic</td>
<td>+420-602-669421</td>
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<tr>
<td>Denmark</td>
<td>+47-22-33-69-99</td>
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<tr>
<td>Finland</td>
<td>+358-(0)9-4711</td>
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<tr>
<td>France / French Switzerland</td>
<td>+33-(0)6-11-07-32-81</td>
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<tr>
<td>Germany / Austria / German Switzerland</td>
<td>+49-(0)6232-130128</td>
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<td>Hungary</td>
<td>+36-30-9-506-447</td>
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<tr>
<td>Italy / Italian Switzerland</td>
<td>+39-333-210-7947</td>
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<tr>
<td>The Netherlands</td>
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<td>Norway</td>
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<tr>
<td>Poland</td>
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<tr>
<td>Portugal</td>
<td>+351-91-911-1399</td>
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<tr>
<td>Russia / Belarus</td>
<td>+7-812-449-0474</td>
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<tr>
<td>Saudi Arabia</td>
<td>+966-(3)847-1515</td>
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<tr>
<td>Slovak Republic</td>
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<tr>
<td>UAE</td>
<td>+44-(0)7071-223-738</td>
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<tr>
<td>UK and Republic of Ireland</td>
<td>+44-(0)7071-223-738</td>
</tr>
<tr>
<td>Nalfleet International</td>
<td>+32-(0)3-575-5555</td>
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MATERIAL SAFETY DATA SHEET

PRODUCT

NALFLEET® 79125 SAFE ACID

EMERGENCY TELEPHONE NUMBER(S)
See section 16, for Emergency Telephone Numbers.

POISON CONTROL CENTER TELEPHONE NUMBERS

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<thead>
<tr>
<th>Country</th>
<th>Number</th>
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<tr>
<td>Belgium</td>
<td>+32-70-245245</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>+420 224 91 92 93</td>
</tr>
<tr>
<td>France</td>
<td>+33-(0)145-42-59-59 ORFILA</td>
</tr>
<tr>
<td>Slovak Republic</td>
<td>+421 (0)2 5477 4166</td>
</tr>
</tbody>
</table>

Prepared By: SHE Department
Date issued: 16.04.2007
Version Number: 2.0

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth