Material Safety Data Sheet
According to EC-directive 2001/58/EC

Printing date: 24.03.2006 Reviewed on: 25.10.2004

1 Identification of substance

· **Product details**

· **Trade name: DAPRO DF GBR**
· **Application of the substance / the preparation:** Defoamer, anti-foaming agent

· **Manufacturer/Supplier:**
Elementis Specialties Netherlands B.V.
Langestraat 167 7491 AE tel: +31/74/3775000
P.O.Box 1 7490 AA fax: +31/74/3775075
DELDEN - The Netherlands

· **Information department:**
Product Stewardship
Tel: +31/74/3775307
Fax: +31/74/3775364
· **Emergency information:** Tel: +32/3/5755555 (SGS)

* 2 Composition/Data on components

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

· **Dangerous components:**

CAS: 64742-65-0 EINECS: 265-169-7	distillates (petroleum), solvent-dewaxed heavy paraffinic	50-100%
CAS: 637-12-7 EINECS: 211-279-5	aluminium tristearate, pure	< 2.5%

* 3 Hazards identification

· **Hazard description:** not applicable
· **Information pertaining to particular dangers for man and environment:**
not applicable
· **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures

· **General information:** No special measures required.
· **After inhalation:** Seek medical treatment in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

· **Suitable extinguishing agents:** Water spray, CO2, extinguishing powder, foam.
· **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

· **Person-related safety precautions:** Not required.
· **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.

(Contd. on page 2)

Material Safety Data Sheet
According to EC-directive 2001/58/EC

Printing date: 24.03.2006 Reviewed on: 25.10.2004

Trade name: DAPRO DF GBR

(Contd. of page 1)

· **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
· **Additional information:** No dangerous substances are released.

7 Handling and storage

· **Handling**
· **Information for safe handling:** No special measures required.
· **Information about protection against explosions and fires:**
No special measures required.

· **Storage**
· **Requirements to be met by storerooms and receptacles:**
Suitable material for receptacles: stainless and carbon steel and plastics.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Protect from frost.
After an extended storage time at lower temperatures the product will separate. However, by stirring and eventually heating (< 60 °C.), the product will get homogeneous again.
This does not influence the quality unfavourably.

* 8 Exposure controls and personal protection

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

64742-65-0 distillates (petroleum), solvent-dewaxed heavy paraffinic
OEL Long-term value: 5 mg/m³
as oilmist.

637-12-7 aluminium tristearate, pure
OEL Long-term value: 1.5 mg/m³
dust-irritation limit.

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

· **Personal protective equipment**
· **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
· **Breathing equipment:**
Use suitable respiratory protective device only when aerosol or mist is formed.
· **Protection of hands:** Safety gloves recommended.
· **Material of gloves**
PVC
Neoprene
· **Penetration time of glove material**
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
· **Eye protection:** Goggles recommended.

(Contd. on page 3)

Material Safety Data Sheet
According to EC-directive 2001/58/EC

Printing date: 24.03.2006 Reviewed on: 25.10.2004

Trade name: DAPRO DF GBR

(Contd. of page 2)

* **9 Physical and chemical properties**

· **General Information**

Form:	Fluid
Colour:	Hazy Light yellow
Odour:	Nearly odourless

· **Change in condition**

Melting point/Melting range:	-10°C (DGF-C-IV-3A)
Boiling point/Boiling range:	> 250°C (ISO 11890)

· **Flash point:** > 200°C (ASTM D6450)

· **Ignition temperature:** > 300°C

· **Decomposition temperature:** > 150°C

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C:** ~ 0.865 g/cm³ (ISO 2811-2)

· **Solubility in / Miscibility with**
water: Dispersible
· **organic solvents:** Soluble in many organic solvents

· **pH-value (10 g/l) at 20°C:** 6.0-8.0 (ASTM D1172)

· **Viscosity:**
dynamic at 20°C: 70-300 mPas (ASTM D2196)

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Materials to be avoided:** oxidizing agents
· **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**
· **LD50 Product:** oral: > 10000 mg/kg (rat).

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

(Contd. on page 4)

Material Safety Data Sheet
According to EC-directive 2001/58/EC

Printing date: 24.03.2006 Reviewed on: 25.10.2004

Trade name: DAPRO DF GBR

(Contd. of page 3)

* 12 Ecological information

· **Information about elimination (persistence and degradability):**
The product is not readily biodegradable. The product is inherently biodegradable.

· **Aquatic toxicity:**
· **fish toxicity:** LC0: > 1000 mg/l.

· **Behaviour in sewage processing plants:**
As the product is insoluble in water, it is advisable to avoid the input of the product into water purification plants. An oil separator can render good services.

· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Classification according VwVwS dated May 1999. (German legislation)
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· **Product**
· **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· **European waste catalogue**
For this product, in accordance with the European Waste Catalogue (EWC), a cataloguenumber cannot be given, because the customer has to lay down the purpose first. The cataloguenumber has to be given according to the local waste-removal.

· **Uncleaned packagings**
· **Recommendation:**
With due observance of local regulations, for instance transport to refuse incinerator.
· **Recommended cleansing agent:** Water, if necessary together with cleansing agents.

14 Transport information

· **Transport/Additional information:**
Not dangerous according to the ADR/RID and IMDG specifications.

15 Regulations

· **Markings according to EU guidelines:**
Observe the general safety regulations when handling chemicals
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

· **National regulations**

· **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.

(Contd. on page 5)

Material Safety Data Sheet
According to EC-directive 2001/58/EC

Printing date: 24.03.2006 Reviewed on: 25.10.2004

Trade name: DAPRO DF GBR

(Contd. of page 4)

16 Other information

Disclaimer of liability: the information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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