



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

**Trade name** **BREDOL 683**

**Chemical description/Application** Emulsifier

**Supplier** Akzo Nobel Surface Chemistry AB  
SE 444 85 Stenungsund  
SWEDEN  
Tel: +46 303 850 00  
Fax: +46 303 813 06

**Emergency telephone** + 31 570679211 (Fax: +31 570679801)  
Akzo Nobel Chemicals, Deventer, NL

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance according to EU-legislation.

Substance name	EU number	CAS number	Concentration	Symbols	Risk phrases
Glyceryl polyethyleneglycol ricinoleate E484		61791-12-6	100 %	-	
Antioxidant added	233-466-0	10191-41-0	ppm	-	
<b>Other Information</b>	All components are registered in EINECS (polymer).				

### 3. HAZARDS IDENTIFICATION

Not classified as dangerous according to EEC Dangerous Substance Directive and Dangerous Preparation Directive.

### 4. FIRST AID MEASURES

**Inhalation** Not relevant.

**Skin** Rinse with water.

**Eyes** Immediately rinse with water for several minutes. If symptoms persist, seek medical advice.

**Ingestion** Drink a few glasses of water or milk. Contact physician if larger quantity has been swallowed (show this Safety Data Sheet).

### 5. FIRE FIGHTING MEASURES

**Extinguishing media** Water spray, fog or mist, foam, powder, carbon dioxide.

**Unusual fire hazards** Non-flammable. If involved in a fire it will support combustion.

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**Hazardous combustion products** No typical hazardous decomposition products known.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** For personal protection see Section 8.

**Environmental precautions** Prevent discharge of larger quantities to drain or water courses.

**Methods for cleaning up** Larger spill: Contain spill with inert material. Absorb in vermiculite, dry sand or earth. Place in container for disposal according to local regulations.

## 7. HANDLING AND STORAGE

**Handling** The usual precautions for handling chemicals should be observed.

**Storage** No specific storage precautions noted.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limits

**Comments** No exposure limits have been established.

**Engineering controls** The usual precautions for handling chemicals should be observed.

### Personal protection

**Hand** Chemical resistant gloves required for prolonged or repeated contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid.		
<b>Colour</b>	Yellow.		
<b>Odour</b>	-		
<b>Boiling point/range (°C)</b>	> 100	<b>Pressure (kPa)</b>	
<b>Melting point/range (°C)</b>	~ -18		
<b>Flash point (°C)</b>	> 150	<b>Method</b>	
<b>Autoignition temperature (°C)</b>	> 150		
<b>Lower explosion limit (vol %)</b>	-		
<b>Upper explosion limit (vol %)</b>	-		
<b>Vapour pressure</b>	-	<b>Temperature (°C)</b>	
<b>Relative vapour density (air=1)</b>	-		
<b>Density (kg/m3)</b>	~ 1020	<b>Temperature (°C)</b>	20
<b>Viscosity</b>	~ 800 mPas	<b>Temperature (°C)</b>	20
<b>pH value</b>	-		
<b>pH value diluted solution</b>	5,5-7,5	<b>Conc. (%)</b>	1
<b>Solubility in water</b>	Emulsifiable.		

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Antioxidant added

**Symbols****EU directive**

Safety Data Sheet according to EC-directive 2001/58/EC

**Other information**

Not classified as dangerous according to EEC Dangerous Substance Directive and Dangerous Preparation Directive.

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**16. OTHER INFORMATION**

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This information only concerns the above mentioned product as supplied and may not be valid if used with other product(s) or in any process. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

**Composed by**

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Bengt Göransson

**Explanations to R-phrases in  
section 2****Date of printing**

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Solubility in other solvents Soluble in ethanol.

Partition coefficient (log Pow) -

(These data are typical for the product and not a specification)

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## 10. STABILITY AND REACTIVITY

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Stability Normally stable.

Hazardous decomposition products No typical hazardous decomposition products known.

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## 11. TOXICOLOGICAL INFORMATION

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### Toxicological data

LD50. oral Rat. > 10000 mg/kg

Sensitization (Magnusson-Kligman): Not sensitizing.

Genotoxicity Ames' test: Not mutagenic.

### Health effects

Respiratory Not relevant.

Skin Prolonged or frequent contact may give transient redness and skin cracking.

Eyes Slightly irritating.

Ingestion Very low acute toxicity.

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## 12. ECOLOGICAL INFORMATION

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### Ecotoxicological data

LC50 96 hours fish > 100 mg/l

Degradation Readily biodegradable. (The data are estimated from tests on similar products.)

Partition coefficient (log Pow) -

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## 13. DISPOSAL CONSIDERATIONS

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Disposal methods Incineration is recommended. Dispose of in accordance with local authority requirements.

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## 14. TRANSPORT INFORMATION

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Land transport

Sea transport

Air transport

Other information Not dangerous goods according to international transport regulations.

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## 15. REGULATORY INFORMATION

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Substance name Glyceryl polyethyleneglycol ricinoleate E484

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