



SAFETY DATA SHEET

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

Trade name **BREDOL 688 P**

Chemical description/Application Emulsifier

Supplier Akzo Nobel Surface Chemistry AB
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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	-	

Other information 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.

Date of last issue 2005-05-24

Revision

0.7

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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 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.

Eyes Wear approved safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder.		
Colour	-		
Odour	-		
Boiling point/range (°C)	> 100	Pressure (kPa)	
Melting point/range (°C)	~ 48		
Flash point (°C)	> 150	Method	
Autoignition temperature (°C)	> 150		
Lower explosion limit (vol %)	-		
Upper explosion limit (vol %)	-		
Vapour pressure	-	Temperature (°C)	
Relative vapour density (air=1)	-		
Density (kg/m³)	~ 1080	Temperature (°C)	60
Viscosity	~ 500 mPas	Temperature (°C)	60
pH value	-		
pH value diluted solution	5-7	Conc. (%)	1

Solubility in water	Soluble.
Solubility in other solvents	Soluble in ethanol.
Partition coefficient (log Pow)	-

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

10. STABILITY AND REACTIVITY

Stability	Normally stable.
Hazardous decomposition products	No typical hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Toxicological data

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.

Component Glyceryl polyethyleneglycol ricinoleate E484

Toxicological data LD50, oral rat > 2000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Partition coefficient (log Pow) -

Component Glyceryl polyethyleneglycol ricinoleate E484

Ecotoxicological data LC50 96 hours fish > 100 mg/l ¹⁾

Degradation	Not readily biodegradable.
Bioaccumulation	No bioaccumulation is expected.
Other information	¹⁾ The data are estimated from tests on similar products.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Land transport

Sea transport

Air transport

Other information Not dangerous goods according to international transport regulations.

15. REGULATORY INFORMATION

Substance name	Glyceryl polyethyleneglycol ricinoleate E484
	Antioxidant added
Symbols	
EU directive	Safety Data Sheet according to EC-directive 2001/58/EC
Water hazard classification	WGK: 1 (Germany).
Other information	Not classified as dangerous according to EEC Dangerous Substance Directive and Dangerous Preparation Directive.

16. OTHER INFORMATION

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.

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Explanations to R-phrases in section 2

Date of printing	2005-05-25
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