



SAFETY DATA SHEET

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

Trade name **BREDOL 693**

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	-	
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.

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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.

Eyes Wear approved safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid.		
Colour	Yellow.		
Odour	-		
Boiling point/range (°C)	> 100	Pressure (kPa)	
Melting point/range (°C)	~ 4		
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)	~ 1050	Temperature (°C)	20
Viscosity	~ 850 mPas	Temperature (°C)	20
pH value	-		
pH value diluted solution	5,5 - 7,5	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
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Toxicological data	LD50, oral Rat. > 10000 mg/kg ¹⁾
Sensitization	(Magnusson-Kligman): Not sensitizing ¹⁾ .
Genotoxicity	Ames' test: Not mutagenic ¹⁾ .
Toxicological information	¹⁾ The value is estimated from tests on similar products.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Partition coefficient (log Pow)	-
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Component	Glyceryl polyethyleneglycol ricinoleate E484
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Ecotoxicological data	LC50 96 hours fish > 100 mg/l ¹⁾
Degradation	Readily biodegradable. (The data are estimated from tests on similar products.)
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.
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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.

Composed by

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

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