



SAFETY DATA SHEET

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

Trade name	Berol 543
Chemical description/Application	Cleaning/washing agent
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 preparation according to EU-legislation.

Substance name	EU number	CAS number	Concentration	Symbols	Risk phrases
C11 Alcohol ethoxylate		34398-01-1	85 %	Xn	R-22, 41
Water	231-791-2	7732-18-5	15 %	-	

Other information All components are registered in EINECS (polymer).

3. HAZARDS IDENTIFICATION

Harmful. Harmful if swallowed. Risk of serious damage to eyes.

4. FIRST AID MEASURES

General	Get medical attention immediately.
Inhalation	Not likely to occur.
Skin	Rinse with water.
Eyes	Immediately rinse with water for several minutes. Hold eyelids apart. Get medical attention immediately. Continue to rinse during transport.
Ingestion	Only when conscious, rinse mouth, give plenty of water to drink (approx. 500 ml). Obtain medical attention.

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.

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. Dispose of this material and its container at hazardous or special waste collection point.

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. For further information see product information sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Comments No exposure limits have been established.

Engineering controls Provide eyewash station.

Personal protection

Hand Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Neoprene or nitrile.

Eyes Wear tightly fitting safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear liquid

Colour -

Odour -

Boiling point/range (°C) 100 **Pressure (kPa)** 760mmHg

Melting point/range (°C) -

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)	~ 1020	Temperature (°C)	20
Bulk density (kg/m³)	-		
Viscosity	~ 120 mPas	Temperature (°C)	20
pH value	-		
pH value diluted solution	5-8	Conc. (%)	1
Solubility in water	Completely soluble.		
Solubility in other solvents	Completely soluble in ethanol.		

(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 likely to occur.
Skin	Prolonged or frequent contact may give transient redness and skin cracking.
Eyes	Severely irritating. Risk of serious damage to eye.
Ingestion	Moderate acute toxicity. May cause irritation to mucous membranes in mouth and throat.

Component **C11 Alcohol ethoxylate**

Toxicological data

LD50. oral rat 200-2000 mg/kg ¹⁾

Toxicological information 1) The value is estimated from tests on similar products.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Ecotoxicology	The product contains substance(s) classified as toxic to aquatic organisms.
Degradation	The product is classified as readily biodegradable and contains only readily biodegradable substances. Primary biodegradation > 90%. The product complies with the decree on surfactant biodegradability of the European Community (73/404/EEG; 73/405/EEG)

Component **C11 Alcohol ethoxylate**

Ecotoxicological data

	LC50 96 hours Oncorhynchus mykiss (fish) 5-10 mg/l ¹⁾
	EC50 48 hours Daphnia 5-10 mg/l ¹⁾
	EC50 72 hours algae 10-100 mg/l ¹⁾
Ecotoxicology	Toxic to aquatic organisms.
Degradation	Readily biodegradable. >60% CO ₂ , 28 days, Modified Sturm Test (OECD 301B). Primary biodegradation > 90%. The product complies with the decree on surfactant biodegradability of the European Community (73/404/EEG; 73/405/EEG) (The data are estimated from tests on similar products.)
Bioaccumulation	No bioaccumulation is expected. The product is biodegradable and water soluble.
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.
Waste category	Hazardous waste in accordance with the Council Directive 91/689/EEC of 12 December 1991 on hazardous waste.

14. TRANSPORT INFORMATION

Land transport	
Sea transport	
Air transport	
Other information	Not dangerous goods according to international transport regulations.

15. REGULATORY INFORMATION

Substance name	C11 Alcohol ethoxylate
Symbols	



Risk phrases	R-22 Harmful if swallowed. R-41 Risk of serious damage to eye.
Safety phrases	S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S-39 Wear eye/face protection.
EU directive	Safety Data Sheet according to EC-directive 2001/58/EC

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.

Important changes were made in section 2, 3, 15.

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Explanations to R-phrases in section 2 R-22 Harmful if swallowed. R-41 Risk of serious damage to eye.

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