



SAFETY DATA SHEET
according to EC Directive 1907/2006

Yellotools Ltd.

Created on: 04/11/2011
Replaces issue from: ---

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1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

Name of the product: ANTISTAT LR 44 E
Product code: LR 44 E
Use / description: Long-term Anti-static agent for flexible and hard thermoplastics of all kinds
Company identification: Yellotools Ltd.
Wilberhofener Str. 3
D - 51570 Windeck
Telephone: +49 (0) 22 92 / 921 928
Fax no: +49 (0) 22 92 / 921 938

Emergency number / advice centre
Advice centre for symptoms of poisoning: Telephone: +49 (0) 22 92 / 921 928

2. COMPOSITION / INFORMATION ON COMPONENTS

Chemical characterisation: Surfactants based on coconut fatty acid

Hazardous Ingredients:

	Area	Symbol	R-phrases	CAS	EINECS
Ethanol	> 70 %	F	11	64-17-5	200-578-6

Additional references: For the wording of the listed hazard warnings refer to section 16.

3. POSSIBLE HAZARDS

Hazard description: The product is a hazardous substance as defined by the EC Directive 67/548/EC.

3.1 To humans

See also point 11 and 15

Product is highly flammable.

Use: Formation of flammable mixtures of vapour and air is possible

3.2 To the environment

See point 12.

4. FIRST AID MEASURES

4.1 Inhalation

Remove person from the danger area.

Supply person with fresh air and consult doctor according to symptoms.

Respiratory failure - mechanical ventilation is necessary.

4.2 Eye contact

Rinse thoroughly with water for several minutes, if necessary, consult a doctor.

4.3 Skin contact

Wash thoroughly with plenty of water; remove contaminated impregnated clothing immediately,

If skin irritation (redness, etc.) occurs, consult a doctor.

4.4 Swallowing

Do not induce vomiting.

Aspiration hazard.



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Call a doctor immediately Keep data Sheet available.

4.5 Special resources necessary for first aid

n.c.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing agents

Water jet spray / alcohol-resistant foam / CO₂ / dry extinguisher

Cool container at risk with water.

5.2 Unsuitable extinguishing agents due to safety reasons

High volume water jet

5.3 Special hazards arising from the substance or preparation itself,

Combustion products or resulting gases

In case of fire the following can develop:

Oxides of carbon

Explosive mixtures of gas and air

Toxic pyrolysis products.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

5.5 Further information

Dispose of contaminated extinguishing water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

Refer to point 13 and for personal protective equipment refer to point 8.

6.1 Personal precautions

Ensure sufficient ventilation.

Remove sources of ignition, do not smoke.

Avoid contact with skin and eyes. Avoid inhalation

6.2 Environmental protection measures

Prevent surface and groundwater infiltration as well as ground penetration.

If leakage of larger quantities occurs, dam up.

Prevent infiltration in canalisation, working pits or other places where its accumulation could be dangerous.

6.3 Procedures for cleaning up

Collect with absorbing material (e.g. Universal binding medium) and dispose of according to point 13.

Flush residue away with plenty of water.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1

VbF [Vorschriften für brennbare Flüssigkeiten, Regulations concerning flammable liquids] class:

See point 15.

Provide adequate ventilation.

Keep away from sources of ignition - no smoking.

Apply working procedures according to operating instructions.

Wash hands before breaks and at the end of work.

If necessary, take measures against static discharges.

If necessary, take measures for explosion protection.



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7.2 Storage

Requirements for storage rooms and containers:

Store VbF [*Vorschriften für brennbare Flüssigkeiten, Regulations for flammable fluids*] products only in designated facilities.

Keep storage regulations of VbF [*Vorschriften für brennbare Flüssigkeiten, Regulations for flammable fluids*] and TRbF [*Technische Regeln für flammbare Flüssigkeiten, Technical regulations for flammable liquids*], such as fire protection equipment, partitions, extinguishing water, retention devices. These measures are dependent on the storage quantity.

Store product closed and only in original packaging.

Do not store with flammable or spontaneously combustible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Provide adequate ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to keep the concentration below the MWC values, a suitable

Respiratory protection should be worn.

Applies only if exposure limit values are listed here.

Chem. designation	% range	MWC, TLV value	MWC value
Ethanol	70 – 100	500 ppm (1900 mg/m ³)	

8.1 Respiratory protection: If MWC value is exceeded.
Filter A (EN 141)

8.2 Hand protection:
Rubber gloves (EN 374)

8.3 Eye protection: Tight fitting goggles with side protection (EN 166).

8.4 Body protection: protective working garments (e.g. safety shoes EN 344, long sleeved working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from the information provided by the glove manufacturer.

Final selection of glove material must be made, taking the breakthrough times, permeation rates and degradation into account.

Selection of suitable gloves depends not only on the material but also on other quality characteristic and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance and must therefore be tested before use.

The exact breakthrough time of the glove material can be request from the protective glove manufacturer and must be observed.

Material of gloves

Selection of suitable gloves depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. Since the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and has therefore to be tested before use.

Penetration time of glove material

The exact penetration time of the glove material can be requested from the protective glove manufacturer and must be observed.

Eye protection: Safety glasses are recommended when transferring.



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Form:	Liquid
Colour:	Colourless, clear
Odour:	Characteristic of alcohol (ethanol)
PH-value:	5,5

9.2 Important health, environmental protection and safety information

Change of state	
Melting point / Melting range	-121 °C (IUCLID)
Boiling point/boiling range:	83°C
Flash point:	17°C
Ignition temperature:	> 425 ° C
Auto-flammability:	The product itself is flammable
Explosion hazard:	The product is not explosive, but the formation of a mixture of explosive air / vapour is possible
Explosion limits:	
Lower:	3.1 vol-% (GESTIS)
Upper:	23.0 vol-% (GESTIS)
Vapour pressure at 20 ° C:	Approx. 50 hPa
Density at 20 ° C (g / ml):	0.805 g / cm ³ (20 ° C) DIN 51757
Solubility in / miscibility with water:	Completely miscible

9.3 Other information

The information on the explosion limits refers to ethanol.

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid

See point 7.

Heating, open flame, ignition sources
Increased pressure leads to the risk of bursting.

10.2 Materials to avoid

See also point 7

Avoid contact with other chemicals.

Oxidising agents

10.3 Hazardous decomposition products

See point 5.3



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11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Primary irritative effect:

on the skin: No irritation

on the eye: No irritation

Sensitisation: No sensitising effect known.

Additional toxicological information:

* Ethanol

11.3 Other notes

No classification according to calculation procedure.

The following may occur:

Irritation of the eyes

Influence/damage the central nervous system

Dizziness

Vomiting

In the event of prolonged contact:

Product has a degreasing effect.

Dermatitis (skin inflammation)

Kidney damage

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability):

• **Other notes:** The product is easily biodegradable.

• **Ecotoxic effects:**

• **Aquatic toxicity:**

64-17-5 ethanol

EC5 65 (72h) mg / l (Entosiphon sulcatum)

6500 (16h) mg / l (Pseudomonas putida)

9268-14221 EC50 (48 h mg / l (daphnia magna)

IC5 5000 (7d) mg / l (Scenedesmus quadricauda)

LC50 8140 (48h) mg / l (Leuciscus idus)

• **General information:**

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

Do not allow undiluted or large quantities to reach ground water, water courses or canalisation.

13. DISPOSAL CONSIDERATIONS

13.1 For the material / preparation / residue

Disposal code no. EC:

The mentioned disposal codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other disposal codes may be allocated under certain circumstances.
07 01 04 - other organic solvents, washing liquids and mother liquors

Recommendation:

Pay attention to local government regulations



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For example, suitable incinerator.

For example, dispose at suitable refuse site.

13.2 For contaminated packing material

See point 13.1

Pay attention to local government regulations

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (international/national):



- **ADR/RID-GGVS/E class:** 3 (F1) Flammable liquids
- **Kemler number:** 33
- **UN number:** 1170
- **Packing group:** II
- **Danger labels:** 3
- **Proper shipping name:** 1170 ETHANOL (ETHYL ALCOHOL)

· **Shipping transport IMDG/GGVSea:**



- **IMDG/GGVSea class:** 3
- **UN-Number:** 1170
- **Label:** 3
- **Packing group:** II
- **EMS Number:** F-E, S-E
- **Marine pollutant:** No
- **Correct technical name:** ETHANOL (ETHYL ALCOHOL)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO / IATA Class:** 3
- **UN / ID Number:** 1170
- **Label:** 3



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15. REGULATIONS

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1907/2006/EC)



Hazard symbols: **F**

Hazard definition

Highly flammable

R-phrases:

11 Highly flammable

S-phrases:

(2) Keep out of reach of children.

7 Keep container tightly closed.

16 Keep away from sources of ignition.

35 Waste products and containers must be disposed of in a safe manner.

51 Use only in well ventilated areas.

(46) If swallowed, seek medical advice immediately and show the container or label.

Accessories: Not applicable

Observe restrictions: Yes

Observe Youth Employment Law (German regulation).

VOC 1999/13/EC ~ 96%

Technical instructions on air:

Class share in %

The preparation is assigned to that class (I, II, III) where the materials are closest in their effectiveness. This assessment cannot be performed in the absence of corresponding data.

Water hazard class: WGK 1 (self assessment): slightly hazardous for water.

16. OTHER INFORMATION

Relevant R-phrases:

11 Highly flammable

* Data compared to the previous version altered.

Disclaimer: The above information is correct to the best of our knowledge; however, it is not claimed to be complete and therefore shall only be used as a guideline. The statements made here should describe the product with regard to the necessary safety precautions, they are not meant to guarantee definite characteristics based on the current status of our knowledge and do not establish a contractual relationship. The company cannot be held responsible for any damage caused by the handling or contact with the above product. Liability is excluded.