

Material Safety Data Sheet

According to 2001/58 EC

Printing date 07.06.2005

Reviewed on 09.02.2004

1 Identification of substance:

- **Product details:**
- **Trade name:** Cleaner E
- **Article number:** 023360
- **Application of the substance / preparation** Cleaning agent/ Cleaner
- **Manufacturer/Supplier:**
BOSTIK BV
De Voerman 8
5215 MH 's-Hertogenbosch
The Netherlands
Tel.: +31 (0)73 6 244 244
- **Informing department:** Product Safety Department

2 Composition/Data on components:

- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

CAS: 141-78-6	ethyl acetate	R 67	50-100%
EINECS: 205-500-4			

- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard designation:**



Xi Irritant
F Highly flammable

- **Information pertaining to particular dangers for man and environment**

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Has a narcotizing effect.

R 11 Highly flammable.

R 36 Irritating to eyes.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

4 First aid measures

- **After inhalation** Supply fresh air.
- **After skin contact** The product is not skin irritating.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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· **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
 - Prevent material from reaching sewage system, holes and cellars.
 - Dilute with much water.
 - Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

141-78-6 ethyl acetate

OES	Short-term value: 400 ppm
	Long-term value: 200 ppm
	Rev

· **Additional information:** The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.
 - Take off immediately all contaminated clothing
 - Wash hands during breaks and at the end of the work.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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Butyl rubber, BR

PVA gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

PVA gloves

Neoprene gloves

- **For the permanent contact gloves made of the following materials are suitable:**

PVA gloves

Neoprene gloves

- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

PVA gloves

Neoprene gloves

- **As protection from splashes gloves made of the following materials are suitable:**

PVA gloves

Neoprene gloves

- **Eye protection:** Tightly sealed safety glasses.

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic

- **Change in condition**

Melting point/Melting range: -83.57°C

Boiling point/Boiling range: 76°C

- **Flash point:** -4°C

- **Ignition temperature:** 460°C

- **Self-inflammability:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

- **Critical values for explosion:**

Lower: 2.1 Vol %

Upper: 11.5 Vol %

- **Vapour pressure at 20°C:** 97 hPa

- **Density at 20°C** 0.9 g/cm³

- **Solubility in / Miscibility with**

Water at 20°C: 79 g/l

Dispersible

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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

141-78-6 ethyl acetate

Oral	LD50	4935 mg/kg (rbt)
Inhalative	LC50/4 h	1600 mg/l (rat)

· **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information:

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

· **Land transport ADR/RID (cross-border)**



- **ADR/RID-GGVS/E Class:** 3 Flammable liquids.

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· **Kemler Number:** 33
 · **UN-Number:** 1173
 · **Packaging group:** II
 · **Label** 3
 · **Designation of goods:** 1173 ETHYL ACETATE, solution

· **Maritime transport IMDG:**

· **IMDG Class:** 3
 · **UN Number:** 1173
 · **Label** 3
 · **Packaging group:** II
 · **EMS Number:** F-E,S-D
 · **Marine pollutant:** No
 · **Correct technical name:** ETHYL ACETATE, solution

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

· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1173
 · **Label** 3
 · **Packaging group:** II
 · **Correct technical name:** ETHYL ACETATE, solution

15 Regulatory information

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**

Xi Irritant
 F Highly flammable

· **Risk phrases:**

11 Highly flammable.
 36 Irritating to eyes.
 66 Repeated exposure may cause skin dryness or cracking.
 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

2 Keep out of the reach of children.

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16 Keep away from sources of ignition - No smoking.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

33 Take precautionary measures against static discharges.

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
III	50-100

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

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

67 Vapours may cause drowsiness and dizziness.

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