

Material Safety Data Sheet According to 2001/58 EC

Printing date 18.10.2004

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	 Xi,  F; R 11-36-66-67	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.

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(Contd. on page 2)

Material Safety Data Sheet According to 2001/58 EC

Printing date 18.10.2004

Reviewed on 09.02.2004

Trade name: Cleaner E

(Contd. of page 1)

5 Fire fighting measures

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

(Contd. on page 3)

Material Safety Data Sheet
According to 2001/58 EC

Printing date 18.10.2004

Reviewed on 09.02.2004

Trade name: Cleaner E

(Contd. of page 2)

· 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.

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 %

(Contd. on page 4)

Material Safety Data Sheet

According to 2001/58 EC

Printing date 18.10.2004

Reviewed on 09.02.2004

Trade name: Cleaner E

(Contd. of page 3)

Upper:	11.5 Vol %
· Vapour pressure at 20°C:	97 hPa
· Density at 20°C	0.9 g/cm ³
· Solubility in / Miscibility with Water at 20°C:	79 g/l Dispersible

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.

(Contd. on page 5)

Material Safety Data Sheet According to 2001/58 EC

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Reviewed on 09.02.2004

Trade name: Cleaner E

(Contd. of page 4)

- **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.
- **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.

(Contd. on page 6)

Material Safety Data Sheet According to 2001/58 EC

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(Contd. of page 5)

· 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.
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

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