

Material Safety Data Sheet

According to 91/155 EEC

1 Identification of substance






OETech MP

- **Application of the substance / the preparation** : Primer for adhesive or sealant
- **Supplier:**
Pilkington North America
4370 Alum Creek Dr.
Columbus, OH 43207
866-377-3647

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Product based upon polyisocyanate

· **Dangerous components:**

CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate  Xi,  F; R 11-36-66-67	60-100%
CAS: 4151-51-3	Tris(p-isocyanatophenyl) thiophosphate  Xn; R 42	5-15%
CAS: 108-90-7 EINECS: 203-628-5	chlorobenzene  Xn,  N; R 10-20-51/53	< 1%

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

3 Hazards identification

· **Hazard description:**



Xn Harmful
F Highly flammable

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

Contains isocyanates. See information supplied by the manufacturer.

R 36 Irritating to eyes.

R 42 May cause sensitisation by inhalation.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

· **Classification system**

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness, place patient stably in side position for transportation.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.
- **The following symptoms may occur:**
 - Nausea
 - Breathing difficulty
 - Dizziness
 - Headache

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, extinguishing powder or water spray.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
In case of fire, the following can be released:
 - Nitrogen oxides (NO_x)
 - Carbon monoxide (CO)
 In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
 - Hydrogen cyanide (HCN)
 - Isocyanates
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
 - Ensure adequate ventilation.
 - Use respiratory protective device against the effects of fumes/dust/aerosol.
 - Keep away from ignition sources.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**
 - Pick up mechanically.
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Send for recovery or disposal in suitable receptacles.
 - Do not close them (reaction with water forming carbon dioxide).

7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Avoid contact with skin and eyes.
 - Ensure good ventilation/exhaustion at the workplace.
 - Open and handle receptacle with care
- **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 receptacles:** Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 - Keep receptacle tightly sealed.
 - Protect from humidity and water.
 - Store in a cool place.

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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

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke while working.

Avoid contact with the skin.

Do not inhale gases / fumes / aerosols.

Immediately remove all soiled and contaminated clothing.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

Filter AB

· **Protection of hands:**

PVA or natural rubber gloves of superior quality.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Eye protection:** Tightly sealed goggles.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· **General Information**

Form:	Fluid
Colour:	Light yellow
Odour:	Light

· **Change in condition**

Melting point/Melting range: undetermined

Boiling point/Boiling range: 76°C

· **Flash point:** -8°C (ISO 1523)

· **Self-ignition temperature:** > 200°C

· **Decomposition temperature:** >140°C

· **Self igniting:** Product is not selfigniting at room temperature.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower:	2 Vol %
Upper:	11.5 Vol %

· **Density at 20°C:** 0.94

· **Solubility in / Miscibility with**

Water: Partly miscible

· **Viscosity:**

dynamic at 20°C: 1 mPa.s

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- **Solvent content:**
- **Organic solvents:** 89 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions:**
Reacts with alcohols, amines, aqueous acids and alkalis.
Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.
- **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:** Frequent or prolonged contact may irritate and cause dermatitis.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through inhalation.

12 Ecological information:

- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must be disposed of in an incinerator for hazardous waste according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

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



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1993
- **Packaging group:** II

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- **Label** 3
- **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (vapor pressure at 50°C at most 110 kPa) (ETHYL ACETATE)

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1993
- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Propper shipping name:** FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE)

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



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1993
- **Label** 3
- **Packaging group:** II
- **Propper shipping name:** FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE)

15 Regulations

- **Markings according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives.
- **Code letter and hazard designation of product:**
Xn Harmful
F Highly flammable
- **Hazard-determining components of labelling:**
Tris(p-isocyanatophenyl) thiophosphate
- **Risk phrases:**
36 Irritating to eyes.
42 May cause sensitisation by inhalation.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.
- **Safety phrases:**
7/9 Keep container tightly closed and in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe vapour.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- **Special labelling of certain preparations:**
Contains isocyanates. See information supplied by the manufacturer.

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16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This data sheet is particularly in accordance with the european directives 1999/45/CE and 2001/59/CE ; it is written according to the european directive 2001/58/CE.

· **Relevant R-phrases**

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 36 Irritating to eyes.
- 42 May cause sensitisation by inhalation.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:** Laboratory

· **Contact:** Mr. COLLET

· **In accordance with the international norm:** ISO 11014-1

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