

# Material Safety Data Sheet

acc. to ISO/DIS 11014

## 1 Identification of substance

### OETech Activator

· **Application of the substance / the preparation :** Primer for adhesive or sealant

· **Supplier:**



Pilkington North America  
4370 Alum Creek Rd.  
Columbus, OH 43207  
866-377-3647

## 2 Composition/Data on components

· **Chemical characterization**

· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**

64-17-5	ethanol	 F; R 11	60-100%
4420-74-0	3-trimethoxysilylpropane-1-thiol	 Xn; R 21/22	< 2.5%

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

## 3 Hazards identification

· **Hazard description:**



F Highly flammable

· **WHMIS classification**



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

R 11 Highly flammable.

· **Classification system:**

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

· **NFPA ratings (scale 0 - 4)**



Health = 3  
Fire = 3  
Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 3  
Fire = 3  
Reactivity = 0

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## 4 First aid measures

- **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.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **The following symptoms may occur:** Headache

## 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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:  
Carbon monoxide (CO)
- **Protective equipment:** Mount 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:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good interior ventilation, especially at floor level. (Vapors are heavier than air).
- **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:**  
Store in a cool location.  
Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

## 8 Exposure controls and personal protection

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

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

#### 64-17-5 ethanol

PEL	1900 mg/m <sup>3</sup> , 1000 ppm
REL	1900 mg/m <sup>3</sup> , 1000 ppm
TLV	1880 mg/m <sup>3</sup> , 1000 ppm

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

#### · Personal protective equipment:

#### · General protective and hygienic measures:

- Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Immediately remove all soiled and contaminated clothing.
- Do not eat, drink or smoke while working.

#### · Breathing equipment:

- Use suitable respiratory protective device in case of insufficient ventilation.
- 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 A

#### · Protection of hands:

PVA 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. 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

<b>Form:</b>	Fluid
<b>Color:</b>	Colorless
<b>Odor:</b>	Alcohol-like

### · Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	78°C (172°F)

· **Flash point:** 13°C (55°F)  
(in closed cup)

· **Ignition temperature:** >200°C (>392°F)

· **Auto igniting:** Product is not selfigniting.

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

### · Explosion limits:

<b>Lower:</b>	3.5 Vol %
<b>Upper:</b>	15 Vol %

· **Vapor pressure at 20°C (68°F):** 59 hPa (44 mm Hg)

· **Density at 20°C (68°F):** 0.80

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- **Solubility in / Miscibility with Water at 20°C (68°F):** 1 g/l

## 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 light alloys.
- **Dangerous products of decomposition:** None to our knowledge at room temperature.

## 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

### 64-17-5 ethanol

Oral	LD50	7060 mg/kg (rat)
Inhalative	LC50/4 h	20000 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Frequent or prolonged contact may irritate and cause dermatitis.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **General notes:**  
Generally not hazardous for water  
Water hazard class 1 (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

- **DOT regulations:**



- **Hazard class:** 3
- **Identification number:** UN1170
- **Packing group:** II
- **Proper shipping name (technical name):** ETHANOL

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· **Label** 3

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



· **ADR/RID class:** 3 Flammable liquids  
 · **Danger code (Kemler):** 33  
 · **UN-Number:** 1170  
 · **Packaging group:** II  
 · **Description of goods:** 1170 ETHANOL (ETHYL ALCOHOL)

· **Maritime transport IMDG:**



· **IMDG Class:** 3  
 · **UN Number:** 1170  
 · **Label** 3  
 · **Packaging group:** II  
 · **EMS Number:** F-E,S-D  
 · **Marine pollutant:** No  
 · **Propper shipping name:** ETHANOL (ETHYL ALCOHOL)

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



· **ICAO/IATA Class:** 3  
 · **UN/ID Number:** 1170  
 · **Label** 3  
 · **Packaging group:** II  
 · **Propper shipping name:** ETHANOL

### 15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

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

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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· **Chemicals known to cause developmental toxicity:**

64-17-5	ethanol
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· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.
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· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.
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· **TLV (Threshold Limit Value established by ACGIH)**

64-17-5	ethanol	A4
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· **MAK (German Maximum Workplace Concentration)**

64-17-5	ethanol	5
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.
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· **Product related hazard informations:**

The product has been classified and marked in accordance with EU Directives.

· **Hazard symbols:**

F Highly flammable

· **Risk phrases:**

11 Highly flammable.

· **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.

33 Take precautionary measures against static discharges.

### 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.

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· **Department issuing MSDS:** Laboratory

· **Contact:** Mr. Alain COLLET

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