

### 1 Identification of substance:

- **Product name:** Voges Proskauer A
- **Catalog number:** 261192
- **Manufacturer/Supplier:**  
BD Diagnostic Systems  
7 Loveton Circle  
Sparks, MD 21152  
Tel: (410) 771-0100 or (800) 638-8663
- **Information department:** Technical Services
- **Emergency information:**  
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems at (410)771-0100 or (800)638-8663, or ChemTrec at (800)424-9300.

### 2 Composition/Data on components:

- **Chemical characterization:**
- **Identification number(s):** Not applicable
- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

64-17-5	ethanol	93.8%
90-15-3	1-naphthol	6.2%

### 3 Hazards identification

· **Hazard description:**



F Highly flammable  
Xn Harmful

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

- R 11 Highly flammable.
- R 36/37/38 Irritating to eyes, respiratory system and skin.
- R 40 Limited evidence of a carcinogenic effect.

· **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 = 2  
Fire = 3  
Reactivity = 0

### 4 First aid measures

- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** Immediately call a doctor.
- **Information for doctor** Show this product label or this MSDS.

**5 Fire fighting measures**

- **Suitable extinguishing agents**  
CO<sub>2</sub>, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

**7 Handling and storage**

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **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:** 15 - 30 C
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **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:** Not applicable
- **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** Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

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**· Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

**· Eye protection:** Safety glasses

**· Body protection:** Protective work clothing (lab coat).

**9 Physical and chemical properties:**

**· General Information**

**Form:** Liquid  
**Color:** Light brown  
**Odor:** Odorless

**· Change in condition**

**Melting point/Melting range:** Not determined  
**Boiling point/Boiling range:** 78°C (172°F)

**· Flash point:** 13°C (55°F)

**· Ignition temperature:** 425.0°C (797°F)

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

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

**· Explosion limits:**

**Lower:** 3.5 Vol %  
**Upper:** 15.0 Vol %

**· Density:** Not determined

**· Solubility in / Miscibility with**

**Water:** Soluble

**· pH-value:** Neutral

**10 Stability and reactivity**

**· Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**· Materials to be avoided:** Incompatible material: strong oxidizers.

**· Dangerous reactions** No dangerous reactions known

**· Dangerous products of decomposition:** Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

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### 11 Toxicological information

· **Acute toxicity:**

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

**64-17-5 ethanol**

Oral	LD50	3450 mg/kg (MOU)
		7060 mg/kg (rat)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Subacute to chronic toxicity:** Target organs: blood, liver, and gastrointestinal.

· **Additional toxicological information:**

Harmful

The product shows the following dangers according to internally approved calculation methods for preparations:

Tumorigenic

### 12 Ecological information:

· **Ecotoxic effects:**

· **Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

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

### 13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

RCRA hazardous waste - RCRA # D001 (ignitable).

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to state and federal regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

· **DOT regulations:**



· **Hazard class:** 3

· **Identification number:** UN1993

· **Packing group:** II

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· **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethanol)  
 · **Label** 3  
 · **Remarks:** This product can be transported using the "small quantity" exception. This package conforms to 49 CFR 173.4. The Hazard Class, Identification number, and Packing group listed above is for informational purposes only.

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



· **ADR/RID class:** 3 (F1) Flammable liquids  
 · **Danger code (Kemler):** 33  
 · **UN-Number:** 1993  
 · **Packaging group:** II  
 · **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (ethanol)

· **Maritime transport IMDG:**



· **IMDG Class:** 3  
 · **UN Number:** 1993  
 · **Label** 3  
 · **Packaging group:** II  
 · **EMS Number:** F-E,S-E  
 · **Marine pollutant:** No  
 · **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethanol)  
 · **Remarks:** Limited quantity

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



· **ICAO/IATA Class:** 3  
 · **UN/ID Number:** 1993  
 · **Label** 3  
 · **Packaging group:** II  
 · **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethanol)  
 · **Remarks:** This product can be transported using the exception: Dangerous Goods in Excepted Quantities. The Hazard class, Identification number, and Packing group listed above is for informational purposes only.

**15 Regulations**

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

None of the ingredients is listed.

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· **SARA Section 313 (specific toxic chemical listings)**

64-17-5 ethanol

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

All ingredients are listed.

· **California Proposition 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause developmental toxicity:**

64-17-5 ethanol

· **Carcinogenicity categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

64-17-5 ethanol

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· **Product related hazard information:**

The product has been classified and marked in accordance with regulations on hazardous materials.

· **Hazard symbols:**

F Highly flammable  
Xn Harmful

· **Risk phrases:**

11 Highly flammable.  
36/37/38 Irritating to eyes, respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.

· **Safety phrases:**

7/9 Keep container tightly closed and in a well-ventilated place.  
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.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
60 This material and its container must be disposed of as hazardous waste.

· **National regulations**

· **Additional classification according to Decree on Hazardous Materials:**

RCRA: This product contains ethanol and has a Reporting Quantity (RQ) of 100 lbs.

SARA 311/312: Maybe subject to reporting.

313: Not subject to reporting.

TSCA: This product is exempt under TSCA.

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**· Technical instructions (air):**

Class	Share in %
III	93.8

**16 Other information:**

*To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

- Department issuing MSDS:** Safety and Environment Department
- Contact:** Technical Service Representative

USA