

Material Safety Data Sheet
acc. to ISO/DIS 11014

Date Prepared: 11/01/2011

Reviewed On: 11/01/2011

1 Identification of the substance/mixture and of the company/undertaking

- **Product Identifier**
- **Product Name:** Voges Proskauer B
- **Catalog Number:** 261193
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771 - 0100 or (800) 638 - 8663
- **Information Department:** Technical Service
- **Emergency telephone number:**
In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Composition/information on ingredients

- **Chemical characterization:** *Mixture*
- **Description:** *Mixture consisting of the following components.*

Dangerous Components:

1310-58-3	potassium hydroxide	40.0%
-----------	---------------------	-------

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 C; Corrosive
R35: Causes severe burns.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with regulations on hazardous materials.
- **Code letter and hazard designation of product:**
 C Corrosive
- **Hazard-determining components of labelling:**
potassium hydroxide

(Contd. on page 2)

USA

Material Safety Data Sheet
acc. to ISO/DIS 11014

Date Prepared: 11/01/2011

Reviewed On: 11/01/2011

Product Name: Voges Proskauer B

(Contd. of page 1)

· Risk phrases:

35 Causes severe burns.

· Safety phrases:

1/2 Keep locked up and out of the reach of children.

20 When using do not eat or drink.

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.

45 In case of accident or if you feel unwell, seek medical advice immediately.

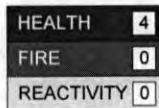
60 This material and its container must be disposed of as hazardous waste.

· NFPA ratings (scale 0-4)

Health = 4

Flammability = 0

Reactivity = 0

· HMIS ratings (scale 0-4)

Health = 4

Flammability = 0

Reactivity = 0

· Other hazards**4 First aid measures****· General information** Immediately remove contaminated clothing.**· After skin contact** Immediately wash with water and soap and rinse thoroughly.**· After eye contact**

Rinse opened eye for 15 minutes under running water. Then consult a doctor.

· After swallowing

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

· Information for doctor Show this product label or this MSDS.**5 Firefighting measures****· Suitable extinguishing agents**CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.**· Special hazards arising from the substance or mixture**

No further relevant information available.

· Protective equipment: No special measures required.

— USA —

(Contd. on page 3)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Date Prepared: 11/01/2011

Reviewed On: 11/01/2011

Product Name: Voges Proskauer B

(Contd. of page 2)

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Wipe up with damp sponge or mop.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Use neutralizing agent.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 15 - 30 °C
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** Not applicable

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

1310-58-3 potassium hydroxideREL 2 mg/m³TLV Short-term value: C 2 mg/m³

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

(Contd. on page 4)

USA

Date Prepared: 11/01/2011

Reviewed On: 11/01/2011

Product Name: Voges Proskauer B

(Contd. of page 3)

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
Appearance:

Form:	Liquid
Color:	Clear
Odor:	Odorless

pH-value:	13.1 +/- 0.2
------------------	--------------

Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

Flash point:	Not applicable
---------------------	----------------

Auto igniting:	Product is not self igniting.
-----------------------	-------------------------------

Danger of explosion:	Product does not present an explosion hazard.
-----------------------------	---

Density:	Not determined
-----------------	----------------

Solubility in / Miscibility with

Water:	Soluble
---------------	---------

Other information	No further relevant information available.
--------------------------	--

10 Stability and reactivity
Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Incompatible materials: Incompatibles materials: Strong Bases and oxidizers

Hazardous decomposition products: No dangerous decomposition products known.

USA

(Contd. on page 5)

**Material Safety Data Sheet**
acc. to ISO/DIS 11014

Date Prepared: 11/01/2011

Reviewed On: 11/01/2011

Product Name: Voges Proskauer B

(Contd. of page 4)

11 Toxicological information**· Acute toxicity:****· LD/LC50 values that are relevant for classification:****1310-58-3 potassium hydroxide**

Oral	LD50	273 mg/kg (mou)
		365 mg/kg (rat)

· Primary irritant effect:**· on the skin:** Strong caustic effect on skin and mucous membranes.**· on the eye:** Strong caustic effect.**· Sensitization:** No sensitizing effects known.**· Additional toxicological information:**

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

Corrosive (causes skin burns)

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information**· Aquatic toxicity:** No further relevant information available.**· Persistence and degradability** No further relevant information available.**· Behavior in environmental systems:****· Bioaccumulative potential** No further relevant information available.**· Ecotoxicological effects:****· Other information:**

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

· Additional ecological information:**· General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**13 Disposal considerations****· Waste treatment methods****· Recommendation**

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.
RCRA hazardous waste - RCRA # D002 (corrosive).
Must not be disposed of with solid waste.

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

— USA —

(Contd. on page 6)

Material Safety Data Sheet acc. to ISO/DIS 11014

Date Prepared: 11/01/2011

Reviewed On: 11/01/2011

Product Name: Voges Proskauer B

(Contd. of page 5)

14 Transport information

· UN-Number	
· DOT	UN1814
· ADR, IMDG, IATA	1814
· UN proper shipping name	
· ADR	1814 POTASSIUM HYDROXIDE SOLUTION
· IMDG, IATA	POTASSIUM HYDROXIDE SOLUTION
· Transport hazard class(es)	
· DOT, IMDG, IATA	
	
· Class	8 Corrosive substances.
· Label	8
· ADR	
	
· Class	8 (C5) Corrosive substances
· Label	8
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Corrosive substances
· Danger code (Kemler):	80
· EMS Number:	F-A,S-B
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

(Contd. on page 7)

USA

**Material Safety Data Sheet**
acc. to ISO/DIS 11014

Date Prepared: 11/01/2011

Reviewed On: 11/01/2011

Product Name: Voges Proskauer B

(Contd. of page 6)

· Transport/Additional information:**· DOT****· Remarks:**

This product can be transported using the "small quantity" exception. This package conforms to 49 CFR 173.4 for domestic highway or rail transport only. The Hazard Class, Identification number, and Packing group listed above is for informational purposes only.

· IMDG**· Remarks:**

Limited quantity

· IATA**· 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 Regulatory information**· SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· 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:

None of the ingredients is listed.

· Carcinogenic categories**· NTP (National Toxicology Program)**

None of the ingredients listed are above the regulated threshold

(Contd. on page 8)

USA

Material Safety Data Sheet
acc. to ISO/DIS 11014

Date Prepared: 11/01/2011

Reviewed On: 11/01/2011

Product Name: Voges Proskauer B

(Contd. of page 7)

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· Product related hazard information:

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

· Hazard symbols:

C Corrosive

· Hazard-determining components of labeling:

potassium hydroxide

· Risk phrases:

35 Causes severe burns.

· Safety phrases:

- 1/2 Keep locked up and out of the reach of children.
20 When using do not eat or drink.
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.
45 In case of accident or if you feel unwell, seek medical advice immediately.
60 This material and its container must be disposed of as hazardous waste.

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 can not guarantee that these are the only hazards that exist.

· Department issuing MSDS:

Environmental, Health & Safety
Created by Michael J. Spinazzola

· Contact: Technical Service Representative

USA