

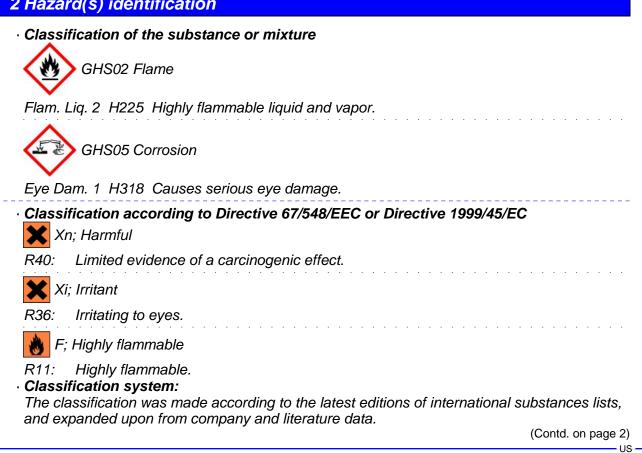
Date Prepared: 04/09/2015

Reviewed On: 04/09/2015

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1 0	enti	tica	tion
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- · Product Identifier
- · Product Name: Voges Proskauer A
- · Catalog Number: 261192
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the mixture In-vitro Diagnostics
- · 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 Email Address: Technical_Services@bd.com · 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 Hazard(s) identification





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- · Label elements
- · GHS label elements

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The product is classified and labeled according to the Globally Harmonized System (GHS). • **Hazard pictograms**



- · Signal word Danger
- · Hazard-determining components of labeling:
- 1-napthol
- · Hazard statements

H225 Highly flammable liquid and vapor.

H318 Causes serious eye damage.

· Precautionary statements

i i ccaulional y sta	itements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
	clothing. Rinse skin with water/shower.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

· NFPA ratings (scale 0-4)



Health = 2Flammability = 3 Reactivity = 0

· HMIS ratings (scale 0-4)

HEALTH 1	Health = 1
FIRE 3	Flammability = 3
REACTIVITY 0	Reactivity = 0

· Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

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· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Substances

- · Identification number(s): Not applicable
- · Chemical characterization: Mixture
- · Description: Mixture consisting of the following components.

· Dangerous Components:			
CAS: 64-17-5 EINECS: 200-578-6		F R10	95.0%
CAS: 90-15-3 EINECS: 201-969-4		Xn R21/22; Xi R37/38	5.0%
Additional information Risk phrases refer to section 15			

Additional information Risk phrases refer to section 15.

4 First-aid measures

- · Description of 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.
- · 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 SDS.
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- 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.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

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- 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).
- 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: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- \cdot Requirements to be met by storerooms and receptacles: 15 30 $^{\circ}C$
- 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.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: Not applicable
- · Control parameters

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

64-17-5 ethanol

- PEL 1900 mg/m³, 1000 ppm
- REL 1900 mg/m³, 1000 ppm
- TLV 1880 mg/m³, 1000 ppm
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · 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).

 Information on basic physical and chemical properties General Information 		
Appearance:		
Form:	Liquid	
Color:	Light brown	
Odor:	Odorless	
pH-value:	Neutral	
Change in condition		
Melting point/Melting range:		
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	
 Other information 	No further relevant information available.	

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known

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- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Incompatible material: strong oxidizers.
- · Hazardous decomposition products: Carbon monoxide (CO) and carbon dioxide (CO2)

11 Toxicological information

- · Information on toxicological effects
- · 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: No irritating effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- Subacute to chronic toxicity:

Target organs: blood, liver, and gastrointestinal.

- Target organs: thyroid, kidney, ureter or bladder tumors.
- Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Tumorigenic

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · 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.
- · Mobility in soil No further relevant information available.

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- Ecotoxical effects:
 Other information:
- The ecological effects have not been thoroughly investigated, but currently none have been identified.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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 # D001 (ignitable). Must not be disposed of with solid waste.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to state and federal regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
· DOT · ADR, IMDG, IATA	UN1993 1993
· UN proper shipping name	
· DOT, IMDG, IATA · ADR	FLAMMABLE LIQUID, N.O.S. (ethanol) 1993 FLAMMABLE LIQUID, N.O.S. (ethanol)
· Transport hazard class(es)	
·DOT	
· Class	3 Flammable liquids
· Label	3



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ADR	
· Class · Label	3 (F1) Flammable liquids 3
· IMDG, IATA	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
· Class · Label	3 Flammable liquids 3
· Packing group	
· DOT, ADR, IMDG, IATA	11
· Environmental hazards: · Marine pollutant:	No
 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Flammable liquids 33 F-E, <u>S-E</u>
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	<i>II of</i> Not applicable.
· 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 informationa purposes only.
· IMDG · Remarks:	Limited quantity
· IATA	



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· 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.
· UN "Model Regulation":	UN1993, Flammable liquids, n.o.s., special provision 640D (Ethanol (Ethyl alcohol)), 3, II

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)
- None of the ingredients is listed.
- · 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
- · Carcinogenic categories
- · TLV (Threshold Limit Value established by ACGIH)

A4

- 64-17-5 ethanol
- The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



· Signal word Danger

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· Hazard-determ	nining components of labeling:
1-napthol	
· Hazard statem	ents
H225 Highly flai	mmable liquid and vapor.
H318 Causes s	erious eye damage.
· Precautionary	statements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P303+P361+P3	353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
D305+D351+D3	338 If in eyes: Rinse cautiously with water for several minutes. Remove
1 30341 33141 3	contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/nationa
1 001	international 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.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Contact: Technical Service Representative

- · Date of preparation / last revision 04/09/2015 / -
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation

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ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europea concerning the International Carriage of Dangerous Goods by Road)	an Agreement
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
Flam. Liq. 2: Flammable liquids, Hazard Category 2 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1	
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