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SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
261192	Dropper Voges-Proskauer A	No data available

Recommended restrictions

Recommended use: Laboratory Chemicals

Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 7 Loveton Circle
Sparks, MD 21152
USA

Telephone: 1 844 823 5433

Fax: not available

Contact Person: Business Unit Product Stewardship Team

E-mail: IDS_SDS@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300



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2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Serious Eye Damage/Eye
Irritation Category 1

Environmental Hazards

Acute hazards to the aquatic
environment Category 3

Chronic hazards to the aquatic
environment Category 3

Label Elements

Hazard Symbol:



Signal Word:

Danger

Hazard Statement:

H225: Highly flammable liquid and vapor.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames
and other ignition sources. No smoking.
P233: Keep container tightly closed.
P241: Use explosion-proof electrical, ventilating and lighting
equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye
protection/face protection.

Response:

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all



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contaminated clothing. Rinse skin with water [or 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 dry sand, dry chemical or
alcohol-resistant foam for extinction.

Storage: P403+P235: Store in a well-ventilated place. Keep cool.

Disposal: P501: Dispose of contents/ container to an approved facility in
accordance with local, regional, national and international
regulations.

**Other hazards which do
not result in GHS
classification:**

FK: Static accumulating flammable liquid can become
electrostatically charged even in bonded and grounded
equipment.
Spark: Sparks may ignite liquid and vapor.
H241: May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Ethanol	No data available.	64-17-5	93.8%
1-Naphthalenol	No data available.	90-15-3	6.2%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of first aid measures



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General information:	Causes serious eye irritation. Get medical attention if symptoms occur.
Inhalation:	Get medical attention if any discomfort continues. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if symptoms persist.
Skin Contact:	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.
Ingestion:	DO NOT induce vomiting. Get medical attention immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.
Personal Protection for First-aid Responders:	No data available.
Most important symptoms and effects, both acute and delayed	
Symptoms:	Symptoms may be delayed.
Hazards:	Causes serious eye irritation. May cause an allergic skin reaction.
Indication of immediate medical attention and special treatment needed	
Treatment:	Get immediate medical advice/attention. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

5. Fire-fighting measures

General Fire Hazards:	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.
Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media:	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.



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Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.
Special hazards arising from the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products.
Special protective equipment and precautions for fire-fighters	
Special fire-fighting procedures:	The product is highly flammable and may be ignited even after short contact with an ignition source.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Stop leak if possible without any risk. Collect for salvage or disposal. Prevent runoff from entering drains, sewers, or streams. Absorb spillage with suitable absorbent material. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.
Environmental Precautions:	Avoid release to the environment.

7. Handling and storage

Handling

Technical measures:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Read



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and follow manufacturer's recommendations. Use personal protective equipment as required.

Contact avoidance measures:

No data available.

Storage

Safe storage conditions:

Store in tightly closed original container in a dry, cool and well-ventilated place.

Safe packaging materials:

No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Ethanol	AN ESL	1,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	10,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	1,880 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	18,800 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values, as amended
	REL	1,000 ppm 1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	IDLH	3,300 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
	LEL	3.3 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended



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	PEL	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	1,000 ppm	1,900 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	TWA PEL	1,000 ppm	1,900 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

Adequate ventilation should be provided whenever the material is heated or mists are generated.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection:

Material: Use suitable protective gloves if risk of skin contact.

Skin and Body Protection:

Wear appropriate clothing to prevent repeated or prolonged skin contact.



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Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hygiene measures:

Avoid contact with eyes. Wash hands after contact. Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Light brown
Odor:	No data available.
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	172 °F/78 °C
Flammability:	No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	55 °F/13 °C
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	No data available.



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Viscosity

Dynamic viscosity:	Not determined.
Kinematic viscosity:	Not determined.
Flow Time:	No data available.

Solubility(ies)

Solubility in Water:	Completely Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	59 hPa (68 °F/20 °C)
Relative density:	No data available.
Density:	0.79 g/cm ³
Bulk density:	No data available.
Relative vapor density:	No data available.

Other information

Metal Corrosion:	Non-corrosive per US Department of Transportation testing protocol.
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10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	Stable
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Strong oxidizing agents. Strong oxidizing agents.
Hazardous Decomposition Products:	By heating and fire, harmful vapors/gases may be formed. By heating and fire, harmful vapors/gases may be formed.



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11. Toxicological information

General information: Irritating to eyes.

Information on toxicological effects

Inhalation: Breathing of high vapor concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness.

Skin Contact: No data available.

Eye contact: Irritating to eyes. Avoid contact with eyes.

Ingestion: Ingestion may cause irritation and malaise.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 8,064.52 mg/kg

Components:

Ethanol No data available.

1-Naphthalenol No data available.

Dermal

Product: ATEmix: 17,741.94 mg/kg

Components:

Ethanol LD 50 (Rabbit): 17,100 mg/kg

1-Naphthalenol No data available.

Inhalation

Product: No data available.

Components:

Ethanol LC 50 (Rat, 4 h): 117 - 125 mg/l 2 = reliable with restrictions;

1-Naphthalenol No data available.

Repeated dose toxicity

Product: No data available.

Components:

Ethanol No data available.



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1-Naphthalenol No data available.

Skin Corrosion/Irritation

Product: No data available.

Components:

Ethanol

1-Naphthalenol No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Ethanol

1-Naphthalenol No data available.

Respiratory or Skin Sensitization

Product: No data available.

Components:

Ethanol

Based on available data, the classification criteria are not met.
Skin sensitization:, in vivo (Guinea pig): Non sensitising

1-Naphthalenol No data available.

Carcinogenicity

Product: No data available.

Components:

Ethanol

Based on available data, the classification criteria are not met.

1-Naphthalenol No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

Ethanol

Based on available data, the classification criteria are not met.

1-Naphthalenol No data available.

In vivo

Product: No data available.

Components:

Ethanol

Based on available data, the classification criteria are not met.



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1-Naphthalenol No data available.

Reproductive toxicity

Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

1-Naphthalenol No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

1-Naphthalenol No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

1-Naphthalenol No data available.

Aspiration Hazard

Product: No data available.

Components:

Ethanol No data available.

1-Naphthalenol No data available.

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:

Harmful to aquatic organisms.

Components:

Ethanol LC 50 (Fathead Minnow, 96 h): 14,200 mg/l
LC 50 (Fathead Minnow, 96 h): 15,300 mg/l
LC 50 (Oncorhynchus mykiss, 24 h): 11,200 mg/l Experimental result,
Supporting study

1-Naphthalenol LC 50 (Pimephales promelas, 96 h): 4.63 mg/l



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Aquatic Invertebrates

Product:	No data available.
Components:	
Ethanol	LC 50 (Water flea (<i>Ceriodaphnia dubia</i>), 48 h): 5,012 mg/l LC 50 (Grass shrimp, freshwater prawn (<i>Palaemonetes kadiakensis</i>), 18 h): 10,100 mg/l LC 50 (Grass shrimp, freshwater prawn (<i>Palaemonetes kadiakensis</i>), 96 h): > 250 mg/l Mortality
1-Naphthalenol	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Ethanol	EC 50 (Green algae (<i>Chlorella vulgaris</i>), 72 h): 275 mg/l
1-Naphthalenol	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Ethanol	LC 50 (Turbellarian, flatworm (<i>Dugesia tigrina</i>), 96 h): > 100 mg/l Mortality
1-Naphthalenol	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No negative effects on the aquatic environment are known. Expected to be harmful to aquatic organisms. May cause long-term adverse effects in the environment.
Components:	
Ethanol	No data available.
1-Naphthalenol	No data available.

Aquatic Invertebrates

Product:	No negative effects on the aquatic environment are known. Expected to be harmful to aquatic organisms.
Components:	
Ethanol	EC10 (Water flea (<i>Daphnia magna</i>), 10 d): 454 mg/l NOEC (Water flea (<i>Daphnia magna</i>), 10 d): 9.6 mg/l
1-Naphthalenol	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Ethanol	No data available.
1-Naphthalenol	No data available.

Toxicity to microorganisms



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Product:	No data available.
Components:	
Ethanol	LC 50 (Turbellarian, flatworm (<i>Dugesia tigrina</i>), 96 h): > 100 mg/l Mortality
1-Naphthalenol	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Ethanol	Readily biodegradable 13.6 % (5 d) Soil Read-across from supporting substance (structural analogue or surrogate), Supporting study 89 % (14 d) Detected in water. Experimental result, Supporting study 53.4 % (5 d) Soil Read-across from supporting substance (structural analogue or surrogate), Supporting study 46.3 % (5 d) Soil Read-across from supporting substance (structural analogue or surrogate), Supporting study
1-Naphthalenol	No data available.

BOD/COD Ratio

Product:	No data available.
Components:	
Ethanol	No data available.
1-Naphthalenol	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
Ethanol	Potential to bioaccumulate is low.
1-Naphthalenol	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	Log Kow: No data available.
Components:	
Ethanol	No data available.
1-Naphthalenol	No data available.

Mobility in soil:

Product	No data available.
Components:	
Ethanol	soil - Very mobile liquid
1-Naphthalenol	No data available.



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Results of PBT and vPvB assessment:

Product	No data available.
Components:	
Ethanol	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria
1-Naphthalenol	No data available.

Other adverse effects:

Other hazards	
Product:	No data available.

13. Disposal considerations

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.
Contaminated Packaging:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.



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14. Transport information

DOT

UN number or ID number:	UN 1993
UN Proper Shipping Name:	Flammable liquids, n.o.s.(Ethanol)
Transport Hazard Class(es)	
Class:	3
Label(s):	3
Packing Group:	II
Marine Pollutant:	No
Special precautions for user:	This package conforms to 49 CFR 173.4

IMDG

UN number or ID number:	UN 1993
UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S.(Ethanol)
Transport Hazard Class(es)	
Class:	3
Subsidiary risk:	3
EmS No.:	F-E, S-E
Packing Group:	II
Environmental Hazards	
Marine Pollutant:	No
Special precautions for user:	EQ

IATA

UN number or ID number:	UN 1993
Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S.(Ethanol)
Transport Hazard Class(es):	
Class:	3
Subsidiary risk:	3
Packing Group:	II
Environmental Hazards	
Marine pollutant:	No
Special precautions for user:	EQ

15. Regulatory information



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US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

RCRA HAZARDOUS WASTE NO. D001

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation, Hazards Not Otherwise Classified (HNOC)



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US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, Ethanol which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable



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Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

16. Other information, including date of preparation or last revision
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Issue Date: 11/09/2022

Version #: 2.2

Further Information: No data available.

Disclaimer:

Disclaimer:

The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use 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. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.

