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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)
261193	BD BBL™ Voges-Proskauer B Reagent Droppers	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

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Oral)	Category 4
Skin Corrosion/Irritation	Category 1
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

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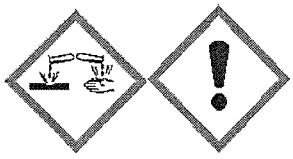
Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement:
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:
P264: Wash face, hands and any exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P273: Avoid release to the environment.

Response:
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P330: Rinse mouth.
P331: Do NOT induce vomiting.
P310: Immediately call a POISON CENTER/doctor.
P321: Specific treatment (see supplemental first aid instructions on this label).
P363: Wash contaminated clothing before reuse.

Storage:
P405: Store locked up.

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

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Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Potassium hydroxide (K(OH))	No data available.	1310-58-3	40%

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

4. First-aid measures

Description of necessary first-aid measures

General information: Causes severe skin burns and eye damage. Get immediate medical advice/attention.

Inhalation: Move to fresh air. Get medical attention if any discomfort continues.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Get medical attention promptly if symptoms occur after washing.

Eye contact: Important! Immediately rinse with water for 60 minutes. Get medical attention immediately. Continue to rinse.

Ingestion: Call a physician or poison control center immediately. Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

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 severe skin burns and eye damage.

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Indication of immediate medical attention and special treatment needed

Treatment: IF exposed or concerned: Get medical advice/attention.

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: Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the 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: No unusual fire or explosion hazards noted.

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. Ventilate closed spaces before entering them. Avoid breathing mists or vapors. Keep unauthorized personnel away.

Accidental release measures: No data available.

Methods and material for containment and cleaning up: Stop leak if possible without any risk. Prevent runoff from entering drains, sewers, or streams. Dike far ahead of larger spills for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

Environmental Precautions: Do not contaminate water sources or sewer.

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7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Adequate ventilation should be provided so that exposure limits are not exceeded. Eye wash facilities and emergency shower must be available when handling this product.

Safe handling advice: Avoid contact with eyes and prolonged or repeated contact with skin. Avoid inhalation of vapors and spray mists. Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Provide good ventilation.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store in original tightly closed container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters
Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Potassium hydroxide (K(OH))	Ceiling	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	2 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Potassium hydroxide (K(OH)) - Particulate.	AN ESL	2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	20 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Potassium hydroxide (K(OH))	Ceiling	2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values, as amended
	Ceil_Time	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

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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 so that exposure limits are not exceeded. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection

Hand Protection:	Material: Suitable gloves can be recommended by the glove supplier.
Skin and Body Protection:	Chemical resistant clothing
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	Observe good industrial hygiene practices. Wash at the end of each work shift and before eating, smoking and using the toilet.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	According to product specification.
Odor:	Characteristic
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
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:	Not applicable
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.

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pH:	12.9 - 13.3
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:	No data available.
Relative density:	No data available.
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.
Particle characteristics	
Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	Stable; however, may decompose if heated.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight. Do not freeze.
Incompatible Materials:	Avoid contact with oxidizers or reducing agents.

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Hazardous Decomposition Products:	By heating and fire, corrosive vapors/gases may be formed.

11. Toxicological information

Information on toxicological effects

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix: 832.5 mg/kg
Components:	
Potassium hydroxide (K(OH))	No data available.

Dermal

Product:	Not classified for acute toxicity based on available data.
Components:	
Potassium hydroxide (K(OH))	No data available.

Inhalation

Product:	Not classified for acute toxicity based on available data.
Components:	
Potassium hydroxide (K(OH))	No data available.

Repeated dose toxicity

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Skin Corrosion/Irritation

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Serious Eye Damage/Eye Irritation

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Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Respiratory or Skin Sensitization

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
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:	
Potassium hydroxide (K(OH))	No data available.

In vivo

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Specific Target Organ Toxicity - Repeated Exposure

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Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	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:	Not expected to be harmful to aquatic organisms.
Components:	
Potassium hydroxide (K(OH))	NOAEL (24 h): 28 mg/l Experimental result, Supporting study LD Lo (Salvelinus fontinalis, 24 h): 50 mg/l Experimental result, Supporting study LC 50 (Gambusia affinis, 96 h): 80 mg/l Experimental result, Supporting study NOAEL (Gambusia affinis, 96 h): 56 mg/l Experimental result, Supporting study LC 50 (Poecilia reticulata, 24 h): 165 mg/l Experimental result, Supporting study

Aquatic Invertebrates

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Potassium hydroxide	No data available.

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(K(OH))

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

BOD/COD Ratio

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Partition Coefficient n-octanol / water (log Kow)

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Product:	Log Kow: No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Mobility in soil:

Product	No data available.
Components:	
Potassium hydroxide (K(OH))	No data available.

Results of PBT and vPvB assessment:

Product	No data available.
Components:	
Potassium hydroxide (K(OH))	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:	This material and/or its container must be disposed of as hazardous waste.
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 1814
UN Proper Shipping Name:	POTASSIUM HYDROXIDE SOLUTION
Transport Hazard Class(es)	
Class:	8
Label(s):	8
Packing Group:	III
Marine Pollutant:	No
Special precautions for user:	This package conforms to 49 CFR 173.4

IMDG

UN number or ID number:	UN 1814
UN Proper Shipping Name:	POTASSIUM HYDROXIDE SOLUTION
Transport Hazard Class(es)	
Class:	8
Subsidiary risk:	8
EmS No.:	F-A, S-B
Packing Group:	III
Environmental Hazards	
Marine Pollutant:	No
Special precautions for user:	EQ

IATA

UN number or ID number:	UN 1814
Proper Shipping Name:	POTASSIUM HYDROXIDE SOLUTION
Transport Hazard Class(es):	
Class:	8
Subsidiary risk:	8
Packing Group:	III
Environmental Hazards	
Marine pollutant:	No
Special precautions for user:	EQ

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

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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
Potassium hydroxide (K(OH))

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute toxicity (any route of exposure), Skin Corrosion or Irritation, Serious eye damage or eye irritation

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)

Chemical Identity
Potassium hydroxide (K(OH))

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
Potassium hydroxide (K(OH))

US. Massachusetts RTK - Substance List

Chemical Identity
Potassium hydroxide (K(OH))

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US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Potassium hydroxide (K(OH))

US. Rhode Island RTK

Chemical Identity
Potassium hydroxide (K(OH))

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

16.Other information, including date of preparation or last revision

Issue Date:	08/24/2022
Version #:	1.2
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.