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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)
565388	BD Horizon™ Fixable Viability Stain 780	No data available

Recommended restrictions

Recommended use: Scientific and industrial laboratory use. For research use only.

Restrictions on use: Not for use in diagnostic or therapeutic procedures.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD Biosciences, Pharmingen
Address: 10975 Torreyana Road
San Diego, CA 92121
USA

Telephone: 1 877 232 8995 or 1 800 424 9300
Fax: not available
Contact Person: Technical Services
E-mail: ResearchApplications@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Serious Eye Damage/Eye Irritation Category 1

Label Elements

Hazard Symbol:





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Signal Word: Danger

Hazard Statement: H318: Causes serious eye damage.

Precautionary Statements

Prevention: P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: 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.

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

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Fixable Viability Stain 780 – NHS Ester	No data available.		100%

^{*} 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 serious eye damage.

Inhalation: Get medical attention if any discomfort continues.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.



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Eye contact:	Important! Immediately rinse with water for 60 minutes. Get medical attention immediately.
Ingestion:	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:	No data available.
Hazards:	Causes serious eye damage.
Indication of immediate medical attention and special treatment needed	
Treatment:	Get immediate 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:	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
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 firefighters	
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:	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash thoroughly after dealing with a spillage. Contact local authorities in case of spillage to drain/aquatic environment.
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Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. 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 (e.g. Local and general ventilation): Adequate ventilation should be provided whenever the material is heated or mists are generated.

Safe handling advice: Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Read 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

None of the components have assigned exposure limits.

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: Chemical goggles and face shield are recommended.

Skin Protection

Hand Protection: Material: Chemical resistant gloves



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- Skin and Body Protection:** Wear a lab coat or similar protective clothing.
- 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:** Do not get in eyes. Wash hands after contact. Observe good industrial hygiene practices.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

- Physical state:** solid
- Form:** Powder
- Color:** Orange
- Odor:** Odorless
- Odor Threshold:** No data available.
- Melting 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:** No data available.
- Self Ignition Temperature:** No data available.
- Decomposition Temperature:** No data available.
- pH:** No data available.
- Viscosity**
- Dynamic viscosity:** No data available.
- Kinematic viscosity:** No data available.
- Flow Time:** No data available.
- Solubility(ies)**
- Solubility in Water:** No data available.
- Solubility (other):** No data available.
- Partition coefficient (n-octanol/water):** No data available.
- Vapor pressure:** No data available.



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Relative density:	No data available.
Density:	No data available.
Bulk density:	No data available.
Vapor density (air=1):	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:	None under normal conditions.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	By heating and fire, harmful vapors/gases may be formed.

11. Toxicological information

Information on toxicological effects

Inhalation:	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin Contact:	Negligible irritation to skin at ambient temperatures.
Eye contact:	May cause chemical eye burns.



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Ingestion: Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Dermal

Product: No data available.

Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Inhalation

Product: No data available.

Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Repeated dose toxicity

Product: No data available.

Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Skin Corrosion/Irritation

Product: No data available.

Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:
Fixable Viability Stain 780 No data available.
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Respiratory or Skin Sensitization

Product: No data available.

Components:
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Carcinogenicity

Product: No data available.

Components:



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Fixable Viability Stain 780 No data available.
– NHS Ester

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:
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In vivo

Product: No data available.

Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Reproductive toxicity

Product: No data available.

Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:
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Aspiration Hazard

Product: No data available.

Components:
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Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No negative effects on the aquatic environment are known.

Components:

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Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Components:

Fixable Viability Stain 780 – NHS Ester No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Fixable Viability Stain 780 – NHS Ester No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Fixable Viability Stain 780 – NHS Ester No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No negative effects on the aquatic environment are known.

Components:

Fixable Viability Stain 780 – NHS Ester No data available.

Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Components:

Fixable Viability Stain 780 – NHS Ester No data available.

Toxicity to Aquatic Plants



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Product: No data available.
Components:
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Toxicity to microorganisms

Product: No data available.
Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Persistence and Degradability

Biodegradation

Product: No data available.
Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

BOD/COD Ratio

Product: No data available.
Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.
Components:
Fixable Viability Stain 780 No data available.
– NHS Ester

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.
Components:
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– NHS Ester

Mobility in soil:

Product No data available.
Components:
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Results of PBT and vPvB assessment:

Product No data available.
Components:



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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: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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.

14. Transport information

DOTUN number or ID number: Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class(es)
 Class: Not regulated.
 Label(s): Not regulated.
Packing Group: Not regulated.
Marine Pollutant: Not regulated.
Limited quantity Not regulated.
Excepted quantity Not regulated.

Special precautions for user: Not regulated.



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IMDG

UN number or ID number: Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class(es)
Class: Not regulated.
Subsidiary risk: Not regulated.
EmS No.: Not regulated.
Packing Group: Not regulated.
Environmental Hazards
Marine Pollutant: Not regulated.

Special precautions for user: Not regulated.

IATA

UN number or ID number: Not regulated.
Proper Shipping Name: Not regulated.
Transport Hazard Class(es):
Class: Not regulated.
Subsidiary risk: Not regulated.
Packing Group: Not regulated.
Environmental Hazards
Marine pollutant: Not regulated.

Special precautions for user: Not regulated.

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.

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):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Serious eye damage or eye irritation



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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. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

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

No ingredient requiring a warning under CA Prop 65.

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

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable



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16. Other information, including date of preparation or last revision
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Issue Date: 01/14/2022

Version #: 1.1

Further Information: No data available.

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