

SAFETY DATA SHEET

1. Identification		
Product identifier		
Product No.:	Product name:	Common name(s), synonym(s)
660584	BD™ Sheath Additive	
Other means of identification SDS number:	088100200355	
Recommended use and restri	iction on use	
Recommended use: Reservent Reservent Restrictions on use: None	/ed for industrial and professional u known.	se.
Manufacturer/Importer/Supp	lier/Distributor Information	
Manufacturer		
Company Name: Address:	Becton, Dickinson and Company - BD Biosciences 2350 Qume Drive 95131 San Jose, CA USA	
Telephone: Fax:	1 877 232 8995 or 1 800 424 9300	
Contact Person: E-mail:	Technical Services ResearchApplications@bd.com or ClinicalApplications@bd.com	
Emergency telephone number: ChemTrec 1 800 424 9300		
2. Hazard(s) identification		
Hazard Classification Not classified		
Label Elements		
Hazard Symbol:	No symbol	
Signal Word:	No signal word.	
Hazard Statement: Precautionary Statements	Not applicable Not applicable	
Other hazards which do not result in GHS classification:	None.	



Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Sodium fluoride (NaF)		7681-49-4	0.82%
* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.			

4. First-aid measures		
General information:	Get medical attention if symptoms occur.	
Ingestion:	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.	
Inhalation:	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.	
Skin Contact:	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.	
Most important symptoms/effects, acute and delayed		
Symptoms:	No data available.	
Indication of immediate medical attention and special treatment needed		
Treatment:	No data available.	
5. Fire-fighting measures		
General Fire Hazards:	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.	
Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	Not applicable	
Specific hazards arising from the chemical:	Fire or excessive heat may produce hazardous decomposition products.	
Special protective equipment a	and precautions for firefighters	



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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:	Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
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	
Precautions for safe handling:	When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
Conditions for safe storage, including any incompatibilities:	Store in a cool, dry place. Keep container tightly closed.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Sodium fluoride (NaF) - as F	TWA	2.5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	2.5 mg/m3	US. ACGIH Threshold Limit Values (12 2010)
	REL	2.5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	2.5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Sodium fluoride (NaF) - Dust.	TWA	2.5 mg/m3	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)



Biological Limit Values

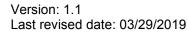
Chemical Identity	Exposure Limit Values	Source
Sodium fluoride (NaF) (Fluoride: Sampling time: Prior to shift.)	2 mg/l (Urine)	ACGIH BEI (03 2013)
Sodium fluoride (NaF) (Fluoride: Sampling time: End of shift.)	3 mg/l (Urine)	ACGIH BEI (03 2013)
Appropriate Engineering ControlsNo special requirements under ordinary conditions of use and with adequate ventilation.		
Individual protection measures, such as personal protective equipment		
General information:	Always observe good personal hygiene meas handling the material and before eating, drink wash work clothing to remove contaminants. footwear that cannot be cleaned.	ing, and/or smoking. Routinely

Eye/face protection:Wear safety glasses with side shields (or goggles).Skin Protection
Hand Protection:Chemical resistant gloves Suitable gloves can be recommended by the
glove supplier. Wash hands after contact.Other: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:Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	No data available.
Color:	Clear
Odor:	Odorless
Odor threshold:	No data available.
pH:	7.0 - 9.0
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	No data available.





Flammability (solid, gas): No data available Upper/lower limit on flammability or explosive limits		
Flammability limit - upper (%):	No data available.	
Flammability limit - lower (%):	No data available.	
Explosive limit - upper (%):	No data available.	
Explosive limit - lower (%):	No data available.	
Vapor pressure:	No data available.	
Vapor density:	No data available.	
Relative density:	No data available.	
Solubility(ies)		
Solubility in water:	Soluble	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/water):	No data available.	
Auto-ignition temperature:	No data available.	
Decomposition temperature:	No data available.	
Viscosity:	No data available.	

10. Stability and reactivity

Reactivity:	Stable under normal temperature conditions and recommended use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Not determined.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Metals. Water reactive material.
Hazardous Decomposition Products:	Stable; however, may decompose if heated.

11. Toxicological information

General information:	No data on possible toxicity effects have been found.
Information on likely routes of e Ingestion:	exposure No harmful effects expected in amounts likely to be ingested by accident.
Inhalation:	Limited inhalation hazard at normal work temperatures.
Skin Contact:	Negligible irritation to skin at ambient temperatures.
Eye contact:	Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.



Symptoms related to the physical, chemical and toxicological characteristics Ingestion: No data available.		
Ingestion:	NU Uata available.	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Information on toxicological effe	cts	
Acute toxicity (list all possible	routes of exposure)	
Oral Product:	ATEmix: 13,902.44 mg/kg	
Dermal Product:	No data available.	
Inhalation Product:	No data available.	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	
Serious Eye Damage/Eye Irritation Product:	on No data available.	
Specified substance(s): Sodium fluoride (NaF)	Possibly Irritating	
Respiratory or Skin Sensitization Product:	n No data available.	
Specified substance(s): Sodium fluoride (NaF)	Skin sensitization:, in vivo (Guinea pig): Non sensitising	
Carcinogenicity Product:	No data available.	



IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified		
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified		
US. OSHA Specifically Regulate No carcinogenic cor	ed Substances (29 CFR 1910.1001-1050): mponents identified	
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	No data available.	
Specific Target Organ Toxicity - Single Exposure Product: No data available.		
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.	
Aspiration Hazard Product:	No data available.	
Other effects:	No data available.	
12. Ecological information		

Ecotoxicity:

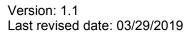
Acute hazards to the aquatic environment:

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

Chronic hazards to the aquatic environment:

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





Aquatic Invertebrates Product:	No negative effects on the aquatic environment are known.
Toxicity to Aquatic Plants Product:	No negative effects on the aquatic environment are known.
Persistence and Degradability	
Biodegradation Product:	Expected to be readily biodegradable.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (Be Product:	CF) No data available.
Specified substance(s): Sodium fluoride (NaF)	Bioconcentration Factor (BCF): 30 Aquatic sediment Other, Key study Bioconcentration Factor (BCF): 7.5 Aquatic sediment Other, Key study Bioconcentration Factor (BCF): 27 - 62 Aquatic sediment Other, Key study Bioconcentration Factor (BCF): 53 - 58 Aquatic sediment Other, Key study Bioconcentration Factor (BCF): < 2 Aquatic sediment Other, Key study
Partition Coefficient n-octar	nol / water (log Kow)
Product:	No data available.
Mobility in soil:	No data available.
Known or predicted distribu	ition to environmental compartments
Sodium fluoride (NaF)	No data available.
Other adverse effects:	The product is not expected to be hazardous to the environment.
13. Disposal considerations	
General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal instructions:	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:	No data available.



14. Transport information

DOTUN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group: Marine Pollutant: Limited quantity Excepted quantity	Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated.	
Special precautions for user:	Not regulated.	
IMDG UN Number:	Not regulated.	
UN Proper Shipping Name: Transport Hazard Class(es) Class: Subsidiary risk: EmS No.:	Not regulated. Not regulated. Not regulated.	
Packing Group: Environmental Hazards Marine Pollutant:	Not regulated. Not regulated. Not regulated.	
Special precautions for user:	Not regulated.	
IATA UN Number: Proper Shipping Name: Transport Hazard Class(es): Class: Subsidiary risk:	Not regulated. Not regulated. Not regulated. Not regulated.	
Packing Group: 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. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.



CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity	
Sodium fluoride (NaF)	1000 lbs.	

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Not classified Not classified

SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical IdentityReportable quantitySodium fluoride (NaF)1000 lbs.

SARA 311/312 Hazardous Chemical

Chemical IdentityThreshold Planning QuantitySodium fluoride (NaF)10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

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

Chemical IdentityReportable quantitySodium fluoride (NaF)Reportable quantity: 1000 lbs.

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



16.Other information, including date of preparation or last revision		
Issue Date:	03/29/2019	
Version #:	1.1	
Revision Information:		
Source of information:	European Chemicals Agency (ECHA): Information on Chemicals.	
Further Information:	No data available.	
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