Rhode Island Department of Environmental Management
2018 Air Pollution Inventory

Mass Balance Reporting Form
(Instructions on Reverse)

Boston Scientific Corp. Coventry, RI 02816
Facility Name

Signature of Person Completing Form

508-683-4083
Phone

04/15/2019
Date

For each Volatile Organic Compound or regulated substance, provide the following information. Attach additional sheets if necessary. ***You may substitute a spreadsheet for this page.***

VOC or Regulated Substance Name & CAS Number	Ethylene Oxide	Ethylene Glycol	Di Ethylene Glycol
	CAS: 75-21-8	CAS: 107-21-1	CAS: 111-46-6
Type of Operation	med. device sterilization	acid scrubber conversion	acid scrubber conversion
Beginning Inventory (1/1/2018)	8,700 pounds		
Amount Purchased	289,200 pounds		
Ending Inventory (12/31/2018)	8,700 pounds		
Amount Manifested and % of that waste that was this chemical	none, converted to EG	467,000 pounds	467,000 pounds
	%	39.04 %	18.62 %
Amount Retained in Product	negligible	none	none
Amt. discharged to POTW (name): _____	none	none	none
Other Mass Balance Adjustments (specify)	74,200 disposed in water	none	none
Amount of Substance Released to Air	717 pounds	0	0
Describe Air Pollution Control or Recovery Equipment Pertinent to Chemical	Type: acid scrub/dry ads. Approval No.: 2134	Type: Approval No.:	Type: Approval No.:
Capture Efficiency %	99.75	100	100
Destruction or Recovery Efficiency %	99.9996		
Overall Efficiency %	99.75		

Return to: Air Pollution Inventory, Office of Air Resources,
235 Promenade Street, Providence, RI 02908-5767

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For each Volatile Organic Compound or regulated substance, provide the following information. Attach additional sheets if necessary. ***You may substitute a spreadsheet for this page.***

VOC or Regulated Substance Name & CAS Number	Tri Ethylene Glycol		
	CAS: 112-27-6	CAS:	CAS:
Type of Operation	acid scrubber conversion		
Beginning Inventory (1/1/2018)			
Amount Purchased			
Ending Inventory (12/31/2018)			
Amount Manifested and % of that waste that was this chemical	467,000 pounds		
	4.75 %	%	%
Amount Retained in Product	none		
Amt. discharged to POTW (name): _____	none		
Other Mass Balance Adjustments (specify)	none		
Amount of Substance Released to Air	0		
Describe Air Pollution Control or Recovery Equipment Pertinent to Chemical	Type: Approval No.:	Type: Approval No.:	Type: Approval No.:
Capture Efficiency %	100		
Destruction or Recovery Efficiency %			
Overall Efficiency %			

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Instructions for Mass Balance Reporting Form

In a basic mass balance formula, the amount of chemical manifested plus the amount left in the product is subtracted from the amount purchased or used to result in the amount emitted or released. Boxes are provided for itemizing typical mass balance data. Please modify the form to suit your specific needs. You may substitute a printout of a spreadsheet you have already developed. **Please convert your data to <u>pounds</u> if possible.**

Regulated Substance - List all Volatile Organic Compounds (VOC) **and** all chemicals listed on the list entitled "Listed Toxic Air Contaminants" that were used at and/or emitted from the facility. Provide a CAS number, usually available on your MSDS. **Please note that <u>all</u> miscellaneous volatile organic compounds (VOCs) used in excess of 100 pounds must be reported even if the name is not specifically listed on the Listed Toxic Air Contaminants List.**

Type of Operation - Describe the kind of process in which the substance was used. Examples: degreasing, plating, wipe cleaning, rotogravure printing, etc.

Beginning Inventory - Report the amount of the substance present on site at the start of the year, if known. Include units (pounds, gallons). **Please provide data in <u>pounds</u> if possible.**

Amount Purchased - Report the amount of the substance purchased or otherwise acquired during 2018 Include units (pounds, gallons). **Please convert your data to <u>pounds</u> if possible.**

Ending Inventory - Report the amount on site at the end of the year, if known. Include units (pounds, gallons). **Please convert your data to <u>pounds</u> if possible.**

Amount Manifested - Report the amount (in <u>pounds</u>) of the regulated substance which was manifested as hazardous waste and the percentage of that waste that was this chemical.

Amount Retained in Product - Indicate the amount of substance which became part of a finished product and was not emitted during or after production. You may be asked to substantiate this.

Amount Discharged to a Publicly Owned Treatment Plant - Report the amount discharged and the name of the treatment plant to which it was discharged.

Other Mass Balance Adjustments - Specify amount and whether it should be added or (subtracted). An example may be the amount disposed of as non-hazardous waste in a landfill. Label carefully.

Amount of Substance Released to Air - Calculate the amount of the substance emitted to air. Include both fugitive and stack emissions. **Attach documentation of the calculations used.**

Air Pollution Control Equipment - Provide a short description of the equipment used to control emissions, if any. Examples follow:

Type:	Incinerator, Venturi Scrubber, Cartridge Baghouse, etc.
Approval. No:	Provide your RIDEM Air Pollution Construction Permit Approval Number.
Capture:	List the capture efficiency for this chemical.
Destruction or Recovery Efficiency:	List if known.
Overall:	List the overall control efficiency of the equipment for this chemical.
	Overall Efficiency = Capture Efficiency x Destruction or Recovery Efficiency