

Clariant Life Science Molecules (Florida), Inc.
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TABLE 1

FACILITY EMISSION POINTS AND EXEMPT EMISSION UNITS AND ACTIVITIES:

| Building Number | Building Name | Emission Point Number | Description | Pollutant Emissions | FAC Rule |
|------------------------|----------------------|------------------------------|--|----------------------------|--------------------|
| 1 | HR | --- | Offices | None | Not Applicable |
| 2 | R & D | 1 | Laboratory fume hood emissions vented atmosphere or to vertical packed-bed fume scrubbers (west end to WS2-1 and east end to WS35-1) | VOC, HAP | 62-4.040 |
| 3 | Analytical Wet Lab | --- | Laboratory | VOC, HAP | 62-210.300(3)(a)15 |
| 4 | Quality | --- | Offices | None | Not Applicable |
| 5 | Pilot Plant | 3 | < 50 gallon glass-lined reactors venturi scrubber (WS 5-1) | VOC, HAP | 62-4.040 |
| 5 | Pilot Plant | 2 | Reactor emissions vented to vertical packed bed fume scrubber (WS 5-1) | VOC, HAP | 62-4.040 |
| 5 | Pilot Plant | 3 | Reactor emissions vented to aspirator/venturi scrubber | VOC, HAP | 62-4.040 |
| 6 | Analytical Lab | --- | Fume hood emissions vented to atmosphere | VOC, HAP | 62-210.300(3)(a)15 |
| 7 | R&D Lab | | Fume hood emissions vented to atmosphere | VOC, HAP | 62-4.040 |
| 8 | R&D Lab | --- | Fume hood emissions vented to scrubber at emission point 27 | VOC, HAP | 62-4.040 |
| 9 | Material Control | --- | Bottle filling fume hood emissions vented to atmosphere | VOC, HAP | 62-4.040 |
| 10 | R&D Storage | --- | Chemical Storage | VOC, HAP | 62-4.040 |
| 11 | R&D Storage | --- | Equipment Storage | None | Not Applicable |
| 12 | Analytical Lab | --- | Sample storage | VOC, HAP | 62-4.040 |

FACILITY EMISSION POINTS AND EXEMPT EMISSION UNITS AND ACTIVITIES (CONT'd):

| Building Number | Building Name | Emission Point Number | Description | Pollutant Emissions | FAC Rule |
|------------------------|------------------------------|------------------------------|---|------------------------------------|-----------------|
| 13 | Oil heater | --- | 30 HP Hot Oil Heater | Products of Natural Gas Combustion | 62-210.300 |
| 14 | Air Compressor | --- | Air compressor | None | Not Applicable |
| 15 | Material Control | --- | Shipping and Receiving, bottling operations | VOC, HAP | 62-4.040 |
| 16 | Manufacturing Offices | --- | Offices | None | Not Applicable |
| 17 | Break Room | --- | Break Room | None | Not Applicable |
| 17a | Manufacturing | --- | Foreman's office | None | Not Applicable |
| | Drum Wash Station | --- | Pressurized water cleaning of empty drums | VOC, HAP | 62-4.040 |
| 18 | Manufacturing | --- | Non-contact water Chiller | VOC, HAP | 62-4.040 |
| 18 | Manufacturing | 6 | Aspirator (A-1 East) emissions vented to vertical packed-bed fume scrubber with demister (WS 18-1) | VOC, HAP | 62-210.300 |
| 18 | Manufacturing | 7 | Aspirator (A-2 West) emissions vented to vertical packed-bed fume scrubber with demister (WS 18-1) | VOC, HAP | 62-210.300 |
| 18 | Manufacturing | 8 | Various reactors and ammonia absorber emissions vented vertical packed bed fume scrubber with demister (WS 18-1 East) | VOC, HAP, NH ₃ | 62-210.300 |
| 18 | Manufacturing | 9 | Various reactor emissions vented to vertical packed bed fume scrubber (WS 18-2 West) | VOC, HAP | 62-210.300 |
| 18 | Manufacturing | 10 | Various reactor emissions vented to 2 vertical packed bed fume scrubbers in series (WS 18-3/4 NW). | VOC, HAP | 62-210.300 |
| 18 | Manufacturing | 11 | Carbon bed absorber (used only during TMT production) (CA-18-4) | VOC, HAP | 62-210.300 |
| 19 | Maintenance | --- | Storage and offices | None | Not Applicable |
| 19 | Hazardous Waste Staging Area | --- | Secondary containment drum storage pad | VOC, HAP | 62-4.040 |
| 20 South | R&D and Lancaster | 12 | 1 to 20 gallon high-pressure autoclaves vented to scrubber (WS 20-1) | VOC, HAP | 62-4.040 |
| 20a East | Manufacturing | 13 | 200 and 500 gallon high-pressure autoclaves vented to scrubbers (WS20-1 or WS20-2) | VOC, HAP | 62-210.300 |
| 21 | Building 21 | 14 | Sulfuric acid mist eliminator (WS 21-1) | | |
| 21 | Building 21 | 15 | Scrubber (WS 21-2) | VOC | |
| 21 | Building 25 | 15a | Aspirator | VOC, HAP | 62-210.300 |

FACILITY EMISSION POINTS AND EXEMPT EMISSION UNITS AND ACTIVITIES:
CONT'd:

| Building Number | Building Name | Emission Point Number | Description | Pollutant Emissions | FAC Rule |
|------------------------|----------------------------|------------------------------|---|----------------------------|-----------------|
| 22 | Manufacturing (Uracil) | --- | Steam heated oven for drying wet uracil | None | Not Applicable |
| 22a | Manufacturing Control Room | --- | Operator Control Room | None | Not Applicable |
| 22b | (2) Mechanical Chillers | --- | Non-contact water cooling | None | Not Applicable |
| 23 | Mechanical Chiller | --- | Non-contact water cooling with ethylene glycol and water | HAP | 62-4.040 |
| 24 | Material Storage | --- | Exterior storage pad and storage building for raw materials and finished goods | VOC, HAP | 62-4.040 |
| 26 | Manufacturing (Prosil) | 5 | Ammoniation process vents for buildings 25 and 26 | NH3 | 62-210.300 |
| 25 | Manufacturing (Prosil) | 16 | Distillation columns: S-4 emissions vented to Emission Point 15a, S-5 and S-6 emissions vented to Emission Point 5 (Ammoniation processes) or Emission Point 21 or 22 (non-Ammoniation processes) | VOC, HAP | 62-210.300 |
| 26 | Manufacturing (Prosil) | 31 | R-14 Ammoniation process vent | NH3 | 62-210.300 |
| 25a | Manufacturing (Prosil) | -- | Operator control room | None | Not Applicable |
| 26 | Manufacturing (Prosil) | 17 | Silane absorber (WS 26-1) emissions vented to emission point 21 or 22 | VOC, HAP | 62-210.300 |
| 26 | Manufacturing (Prosil) | 18 | Venturi vertical packed-bed fume scrubber (WS 26-2) vented to emission point 21 or 22 | VOC, HAP | 62-210.300 |
| 26 | Manufacturing (Prosil) | 19 | W-8 HCl absorber (WS 26-3) emissions vented to emission point 21 or 22 | VOC, HAP | 62-210.300 |
| 26 | Manufacturing (Prosil) | 20 | R-14 HCl absorber (WS 26-4) emissions vented to emission point 21 or 22 | VOC, HAP | 62-210.300 |

FACILITY EMISSION POINTS AND EXEMPT EMISSION UNITS AND ACTIVITIES:
CONT'd:

| Building Number | Building Name | Emission Point Number | Description | Pollutant Emissions | FAC Rule |
|------------------------|--|------------------------------|---|----------------------------|-----------------|
| 26 | Manufacturing (Prosil) | 21 | Caustic vertical packed-bed fume scrubber (WS 26-5) | VOC, HAP | 62-210.300 |
| 26 | Manufacturing (Prosil) | 22 | Caustic venturi vertical packed-bed fume scrubber (WS 26-6) | VOC, HAP | 62-210.300 |
| | Mechanical Chiller | --- | Non-contact water cooling with ethylene glycol and water | VOC, HAP | 62-4.040 |
| 27, 27a | Steam Generation Plant | 33 | (2) 200 hp natural gas fired boilers for steam generation | VOC | 62-4.040 |
| 28 | Maintenance (West) | --- | Batch Cold Cleaner for cleaning mechanical parts | VOC | 62-4.040 |
| 28a | Maintenance (Instrumentation and Electrical) | --- | Offices | None | Not Applicable |
| 29 | Cooling Tower and (2) Mechanical Chillers | --- | Water to cool non-contact water | None | Not Applicable |
| 30 | Shower/Locker Room | --- | Employee shower and lockers | None | Not Applicable |
| 31 | Material Coating Storage | --- | Paint supplies | VOC, HAP | 62-4.040 |
| 31a | Liquid nitrogen tank & Evaporator | --- | Conversion of liquid nitrogen to gaseous nitrogen | None | Not Applicable |
| 32 | Process Water Treatment | --- | Tank & aeration pond for final pH control | VOC, HAP | 62-4.040 |
| 32a | Process Water Treatment | --- | Aboveground NaOH and HCl storage tanks | HAP | 62-4.040 |
| 32b | Process Water Treatment | --- | Bulk pH control tanks | VOC, HAP | 62-4.040 |
| 32c | Process Water Treatment | 26 | Stripper for process water treatment | VOC, HAP | 62-210.300 |

FACILITY EMISSION POINTS AND EXEMPT EMISSION UNITS AND ACTIVITIES:
CONT'd:

| Building Number | Building Name | Emission Point Number | Description | Pollutant Emissions | FAC Rule |
|------------------------|--|------------------------------|--|----------------------------|--|
| 33 | Lancaster Lab | --- | Manufacture of small quantities of chemicals, counter top and walk in fume hoods vented to atmosphere or vertical, packed bed scrubber (WS 33-1) | VOC, HAP | 62-4.040 |
| 33 | Mechanical Chiller (Lancaster Lab) | --- | Non-contact water cooling with ethylene glycol and water | VOC, HAP | 62-4.040 |
| 34 | Research and Development | --- | Offices | None | Not Applicable |
| 35 | Manufacturing | 27 | Manufacturing of small quantities of catalog chemicals, emissions vented to vertical packed-bed fume scrubber (WS 35-1) | VOC, HAP | 62-4.040 |
| 36, 36a | Engineering | --- | Offices | None | Not Applicable |
| 36b | EHS | --- | Offices | None | Not Applicable |
| 37 | Material Control | --- | Warehouse of drummed and bottled material | VOC, HAP | 62-4.040 |
| 38 | Material Control | --- | Drummed material storage pad (raw materials, intermediates, and hazardous wastes) | VOC, HAP | 62-4.040 |
| 39 | Manufacturing (R-10, R12 processes) | 28 | Venturi scrubber (WS 39-1) followed by a vertical packed-bed fume scrubber (WS 39-2) | VOC, HAP | 62-210.300 |
| 39 | Manufacturing (R-10, R-12 Ammoniation processes) | 30 | Ammoniation processes vented to emission point 28 or atmosphere | NH3 | 62-210.300 |
| 40 | Material Control | --- | Drummed material storage pad (east) | VOC, HAP | 62-4.040 |
| 41 | Material Control | --- | Drummed material storage pad (west) | VOC, HAP | 62-4.040 |
| 42 | Fire Pump House | --- | Fire fighting equipment and emergency diesel engine | VOC | 62-210.300(3)(a)21 62-210.300(3)(a)22 |
| 43a | Manufacturing (NBD) | --- | Motor control center | None | Not Applicable |
| 26 | Manufacturing (Prosil) | 31 | Ammoniation vent for R-14 | NH3 | 62-210.300 |
| 18 | Commercial Reactor Building | 34 | Vertical venturi packed-bed fume scrubber | VOC, HAP | 62-210.300 |
| 43 | Norbornadiene (NBD) | 29 | Flare for Norbornadiene | VOC | 62-210.300 |

