

## Section 1. Registration Information

### Source Identification

---

|                         |                                    |
|-------------------------|------------------------------------|
| Facility Name:          | Advanced Silicon Carbide Materials |
| Parent Company #1 Name: | Advanced Silicon Carbide Materials |
| Submission Type:        | Resubmission                       |
| Receipt Date:           | August 2024                        |

### Facility Identification

---

|              |                |
|--------------|----------------|
| Facility ID: | 1000 0019 9313 |
|--------------|----------------|

### Dun and Bradstreet Numbers (DUNS)

---

|                |          |
|----------------|----------|
| Facility DUNS: | 80742145 |
|----------------|----------|

### Facility Location Address

---

|           |                 |
|-----------|-----------------|
| Street 1: | 3038 Aukele St. |
| Street 2: | N/A             |
| City:     | Lihue           |
| State:    | HI              |
| ZIP:      | 96766           |
| ZIP4:     | 1464            |
| County:   | Kauai           |

### Facility Latitude and Longitude

---

|                      |             |
|----------------------|-------------|
| Latitude (decimal):  | 21.970500   |
| Longitude (decimal): | -159.358800 |

### Local Emergency Planning Committee and Regulations

---

|              |                   |
|--------------|-------------------|
| LEPC:        | Kauai County LEPC |
| OSHA PSM:    | Yes               |
| EPCRA 302:   | Yes               |
| CAA Title V: | N/A               |

## Process Chemicals

---

|                  |  |
|------------------|--|
| Program Level:   | Program Level 3 process                          |
| Chemical Name:   | Methyltrichlorosilane [Silane, trichloromethyl-] |
| CAS Number:      | 75-79-6  |
| Flammable/Toxic: | Toxic  |

## Process NAICS

---

|                    |  |
|--------------------|--|
| NAICS Code:        | 54171  |
| NAICS Description: | Research and Development in the Physical, Engineering, and Life Sciences |
| NAICS Code:        | 327999   |
| NAICS Description: | All Other Miscellaneous Nonmetallic Mineral Product Manufacturing        |

## Section 6. Accident History

### Accident History ID: Accident 1

---

|                                 |  |
|---------------------------------|--|
| Date of Accident:               | August 2016  |
| Time Accident Began (HH:MM):    | 22:20  |
| NAICS Code of Process Involved: | 54171  |
| NAICS Description:              | Research and Development in the Physical, Engineering, and Life Sciences |
| Release Duration:               | 000 Hours 10 Minutes   |

## Release Event

---

|                                |     |
|--------------------------------|-----|
| Gas Release:                   | Yes |
| Liquid Spill/Evaporation:      | N/A |
| Fire:                          | N/A |
| Explosion:                     | N/A |
| Uncontrolled/Runaway Reaction: | N/A |

## Release Source

---

|                       |     |
|-----------------------|-----|
| Storage Vessel:       | N/A |
| Piping:               | N/A |
| Process Vessel:       | Yes |
| Transfer Hose:        | N/A |
| Valve:                | N/A |
| Pump:                 | N/A |
| Joint:                | N/A |
| Other Release Source: | N/A |

## Weather Conditions at the Time of Event

---

|                              |         |
|------------------------------|---------|
| Wind Speed:                  | 5.0     |
| Units:                       | Miles/h |
| Direction:                   | NE      |
| Temperature:                 | 78      |
| Atmospheric Stability Class: | F       |
| Precipitation Present:       | N/A     |
| Unknown Weather Conditions:  | N/A     |

## On-Site Impacts

---

|                                  |      |
|----------------------------------|------|
| Employee or Contractor Deaths:   | 0    |
| Public Responder Deaths:         | 0    |
| Public Deaths:                   | 0    |
| Employee or Contractor Injuries: | 0    |
| Public Responder Injuries:       | 0    |
| Public Injuries:                 | 0    |
| On-Site Property Damage (\$):    | 1000 |

## Known Off-Site Impacts

---

|                                |   |
|--------------------------------|---|
| Deaths:                        | 0 |
| Hospitalizations:              | 0 |
| Public Deaths:                 | 0 |
| Other Medical Treatments:      | 0 |
| Evacuated:                     | 0 |
| Sheltered-in-Place:            | 0 |
| Off-Site Property Damage (\$): | 0 |

## Environmental Damage

---

|                                    |     |
|------------------------------------|-----|
| Fish or Animal Kills:              | N/A |
| Tree, Lawn, Shrub, or Crop Damage: | N/A |
| Water Contamination:               | N/A |
| Soil Contamination:                | N/A |
| Other Environmental Damage:        | N/A |

## Initiating Event

---

|                   |                   |
|-------------------|-------------------|
| Initiating Event: | Equipment Failure |
|-------------------|-------------------|

## Contributing Factors

---

|                                  |     |
|----------------------------------|-----|
| Equipment Failure:               | N/A |
| Human Error:                     | N/A |
| Improper Procedures:             | N/A |
| Overpressurization:              | N/A |
| Upset Condition:                 | N/A |
| By-Pass Condition:               | N/A |
| Maintenance Activity/Inactivity: | N/A |
| Process Design Failure:          | Yes |
| Unsuitable Equipment:            | N/A |
| Unusual Weather Condition:       | N/A |
| Management Error:                | N/A |
| Other Contributing Factor:       | N/A |

## Off-Site Responders Notified

---

|                               |                  |
|-------------------------------|------------------|
| Off-Site Responders Notified: | No, not notified |
|-------------------------------|------------------|

## Changes Introduced as a Result of the Accident

---

|                                  |     |
|----------------------------------|-----|
| Improved or Upgraded Equipment:  | Yes |
| Revised Maintenance:             | Yes |
| Revised Training:                | Yes |
| Revised Operating Procedures:    | Yes |
| New Process Controls:            | N/A |
| New Mitigation Systems:          | N/A |
| Revised Emergency Response Plan: | N/A |
| Changed Process:                 | N/A |
| Reduced Inventory:               | N/A |
| None:                            | N/A |
| Other Changes Introduced:        | N/A |

## Chemicals in Accident History

---

|                          |  |
|--------------------------|--|
| Quantity Released (lbs): | 1  |
| Percent Weight:          | 98   |
| Chemical Name:           | Methyltrichlorosilane [Silane, trichloromethyl-] |
| CAS Number:              | 75-79-6  |
| Flammable/Toxic:         | Toxic  |

## Section 9. Emergency Response

### Written Emergency Response (ER) Plan

---

|   |     |
|---|-----|
| Community Plan (Is facility included in written community emergency response plan?):  | Yes |
| Facility Plan (Does facility have its own written emergency response plan?):  | Yes |
| Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?): | Yes |
| Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?): | Yes |
| Healthcare (Does facility's ER plan include information on emergency health care?):   | Yes |

### Local Agency

---

|  |                                   |
|--|-----------------------------------|
| Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated):                 | Kauai County Civil Defense Agency |
| Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated): | (808) 241-1800                    |