

**U.S. Department of Labor** Occupational Safety and Health Administration  
1851 Executive Center Drive  
Suite 227  
Jacksonville, FL 32207



11/03/2023

Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC  
and its successors  
17526 High Springs Main Street  
High Springs, FL 32643

Dear Employer:

Enclosed you will find citations for violations of the Occupational Safety and Health Act of 1970 (the Act) which may have accompanying proposed penalties. Also enclosed is a booklet entitled, "Employer Rights and Responsibilities Following an OSHA Inspection", (OSHA 3000-04R) revised 2018, which explains your rights and responsibilities under the Act. If you have any questions about the enclosed citations and penalties, I would welcome further discussions in person or by telephone. Please contact me at (904) 232-2895.

You will note on page 6 of the booklet that, for violations which you do not contest, you must (1) notify this office promptly by letter that you have taken appropriate corrective action within the time set forth on the citation; and (2) pay any penalties assessed. Please inform me of the abatement steps you have taken and of their dates together with adequate supporting documentation; e.g., drawings or photographs of corrected conditions, purchase/work orders related to abatement actions, air sampling results. This information will allow us to close the case.

As indicated on page 3 of the booklet, you may request an informal conference with me during the 15-working-day notice of contest period. During such an informal conference you may present any evidence or views which you believe would support an adjustment to the citation or the penalty.

If you are considering a request for an informal conference to discuss any issues related to this Citation and Notification of Penalty, you must take care to schedule it early enough to allow time to contest after the informal conference, should you decide to do so. Please keep in mind that a written letter of intent to contest must be submitted to the Area Director within 15 working days of your receipt of the citation. The running of this contest period is not interrupted by an informal conference.

If you decide to request an informal conference, please complete the attached notice at the bottom of this letter and post it next to the Citations as soon as the time, date and the place of the informal conference have been determined. Be sure to bring to the conference with you any and all supporting documentation of existing conditions as well as of any abatement steps taken thus far. If conditions warrant, we can enter into an informal settlement agreement which amicably resolves this matter without litigation or contest.

You should be aware that OSHA publishes information on its inspection and citation activity on the Internet under the provisions of Electronic Freedom of Information Act. The information related to these alleged violations will be posted when our system indicates that you have received this citation. You are encouraged to review the information concerning your establishment at [www.osha.gov](http://www.osha.gov). If you have any dispute with the accuracy of the information displayed, please contact this office.

Sincerely,

**David Tisdale**  
Area Director

Enclosures

**U.S. Department of Labor**  
Occupational Safety and Health Administration  
1851 Executive Center Drive  
Suite 227  
Jacksonville, FL 32207



## Citation and Notification of Penalty

**To:**  
Air Liquide Advanced Materials, Inc., dba Air Liquide  
Advanced Materials of Florida, LLC  
and its successors  
17526 High Springs Main Street  
High Springs, FL 32643

**Inspection Number:** 1668213  
**Inspection Date(s):** 05/05/2023 - 11/02/2023  
**Issuance Date:** 11/03/2023

**Inspection Site:**  
17526 High Springs Main Street  
High Springs, FL 32643

*The violation(s) described in this Citation and Notification of Penalty is (are) alleged to have occurred on or about the day(s) the inspection was made unless otherwise indicated within the description given below.*

This Citation and Notification of Penalty (this Citation) describes violations of the Occupational Safety and Health Act of 1970. The penalty(ies) listed herein is (are) based on these violations. You must abate the violations referred to in this Citation by the dates listed and pay the penalties proposed, unless within 15 working days (excluding weekends and Federal holidays) from your receipt of this Citation and Notification of Penalty **you either call to schedule an informal conference (see paragraph below) or** you mail a notice of contest to the U.S. Department of Labor Area Office at the address shown above. Please refer to the enclosed booklet (OSHA 3000) which outlines your rights and responsibilities and which should be read in conjunction with this form. Issuance of this Citation does not constitute a finding that a violation of the Act has occurred unless there is a failure to contest as provided for in the Act or, if contested, unless this Citation is affirmed by the Review Commission or a court.

**Posting** - The law requires that a copy of this Citation and Notification of Penalty be posted immediately in a prominent place at or near the location of the violation(s) cited herein, or, if it is not practicable because of the nature of the employer's operations, where it will be readily observable by all affected employees. This Citation must remain posted until the violation(s) cited herein has (have) been abated, or for 3 working days (excluding weekends and Federal holidays), whichever is longer.

**Informal Conference** - An informal conference is not required. However, if you wish to have such a conference you may request one with the Area Director during the 15 working day contest period by calling (904) 232-2895. During such an informal conference, you may present any evidence or views which you believe would support an adjustment to the citation(s) and/or penalty(ies).

If you are considering a request for an informal conference to discuss any issues related to this Citation and Notification of Penalty, you must take care to schedule it early enough to allow time to contest after the informal conference, should you decide to do so. Please keep in mind that a written letter of intent to contest must be submitted to the Area Director within 15 working days of your receipt of this Citation. The running of this contest period is not interrupted by an informal conference.

If you decide to request an informal conference, please complete, remove and post the Notice to Employees next to this Citation and Notification of Penalty as soon as the time, date, and place of the informal conference have been determined. Be sure to bring to the conference any and all supporting documentation of existing conditions as well as any abatement steps taken thus far. If conditions warrant, we can enter into an informal settlement agreement which amicably resolves this matter without litigation or contest.

**Right to Contest** – You have the right to contest this Citation and Notification of Penalty. You may contest all citation items or only individual items. You may also contest proposed penalties and/or abatement dates without contesting the underlying violations. **Unless you inform the Area Director in writing that you intend to contest the citation(s) and/or proposed penalty(ies) within 15 working days after receipt, the citation(s) and the proposed penalty(ies) will become a final order of the Occupational Safety and Health Review Commission and may not be reviewed by any court or agency.**

**Penalty Payment** – Penalties are due within 15 working days of receipt of this notification unless contested. (See the enclosed booklet and the additional information provided related to the Debt Collection Act of 1982.) Make your check or money order payable to “DOL-OSHA”. Please indicate the Inspection Number on the remittance. You can also make your payment electronically at [www.pay.gov](http://www.pay.gov). At the top of the pay.gov homepage, type "OSHA" in the Search field and select Search. From **OSHA Penalty Payment Form** search result, select Continue. The direct link is:

<https://www.pay.gov/paygov/forms/formInstance.html?agencyFormId=53090334>

You will be required to enter your inspection number when making the payment. Payments can be made by credit card or Automated Clearing House (ACH) using your banking information. Payments of \$25,000 or more require a Transaction ID, and also must be paid using ACH. If you require a Transaction ID, please contact the OSHA Debt Collection Team at (202) 693-2170.

OSHA does not agree to any restrictions or conditions or endorsements put on any check, money order, or electronic payment for less than the full amount due, and will process the payments as if these restrictions or conditions do not exist.

**Notification of Corrective Action** – For each violation which you do not contest, you must provide **abatement certification** to the Area Director of the OSHA office issuing the citation and identified above. This abatement certification is to be provided by letter within 10 calendar days after each abatement date. Abatement certification includes the date and method of abatement. If the citation indicates that the violation was corrected during the inspection, no abatement certification is required for that item. The abatement certification letter must be posted at the location where the violation appeared and the corrective action took place or employees must otherwise be effectively informed about abatement activities. A sample abatement certification letter is enclosed with this Citation. In addition, where the citation indicates that **abatement documentation** is necessary, evidence of the purchase or repair of equipment, photographs or video, receipts, training records, etc., verifying that abatement has occurred is required to be provided to the Area Director.

**Employer Discrimination Unlawful** – The law prohibits discrimination by an employer against an employee for filing a complaint or for exercising any rights under this Act. An employee who believes that

he/she has been discriminated against may file a complaint no later than 30 days after the discrimination occurred with the U.S. Department of Labor Area Office at the address shown above.

**Employer Rights and Responsibilities** – The enclosed booklet (OSHA 3000) outlines additional employer rights and responsibilities and should be read in conjunction with this notification.

**Notice to Employees** – The law gives an employee or his/her representative the opportunity to object to any abatement date set for a violation if he/she believes the date to be unreasonable. The contest must be mailed to the U.S. Department of Labor Area Office at the address shown above and postmarked within 15 working days (excluding weekends and Federal holidays) of the receipt by the employer of this Citation and Notification of Penalty.

**Inspection Activity Data** – You should be aware that OSHA publishes information on its inspection and citation activity on the Internet under the provisions of the Electronic Freedom of Information Act. The information related to these alleged violations will be posted when our system indicates that you have received this citation. You are encouraged to review the information concerning your establishment at [www.osha.gov](http://www.osha.gov). If you have any dispute with the accuracy of the information displayed, please contact this office.



## NOTICE TO EMPLOYEES OF INFORMAL CONFERENCE

An informal conference has been scheduled with OSHA to discuss the citation(s) issued on 11/03/2023. The conference will be held by telephone or at the OSHA office located at 1851 Executive Center Drive, Suite 227, Jacksonville, FL 32207 on \_\_\_\_\_ at \_\_\_\_\_.

Employees and/or representatives of employees have a right to attend an informal conference.

**CERTIFICATION OF CORRECTIVE ACTION WORKSHEET**

**Inspection Number: 1668213**

Company Name: Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC  
Inspection Site: 17526 High Springs Main Street, High Springs, FL 32643  
Issuance Date: 11/03/2023

List the specific method of correction for each item on this citation in this package that does not read "Corrected During Inspection" and return to: **U.S. Department of Labor – Occupational Safety and Health Administration, 1851 Executive Center Drive, Suite 227, Jacksonville, FL 32207.**

Citation Number \_\_\_\_\_ and Item Number \_\_\_\_\_ was corrected on \_\_\_\_\_  
By (Method of Abatement): \_\_\_\_\_

Citation Number \_\_\_\_\_ and Item Number \_\_\_\_\_ was corrected on \_\_\_\_\_  
By (Method of Abatement): \_\_\_\_\_

Citation Number \_\_\_\_\_ and Item Number \_\_\_\_\_ was corrected on \_\_\_\_\_  
By (Method of Abatement): \_\_\_\_\_

Citation Number \_\_\_\_\_ and Item Number \_\_\_\_\_ was corrected on \_\_\_\_\_  
By (Method of Abatement): \_\_\_\_\_

Citation Number \_\_\_\_\_ and Item Number \_\_\_\_\_ was corrected on \_\_\_\_\_  
By (Method of Abatement): \_\_\_\_\_

Citation Number \_\_\_\_\_ and Item Number \_\_\_\_\_ was corrected on \_\_\_\_\_  
By (Method of Abatement): \_\_\_\_\_

I certify that the information contained in this document is accurate and that the affected employees and their representatives have been informed of the abatement.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed or Printed Name

\_\_\_\_\_  
Title

**NOTE: 29 USC 666(g)** whoever knowingly makes any false statements, representation or certification in any application, record, plan or other documents filed or required to be maintained pursuant to the Act shall, upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment of not more than 6 months or both.

**POSTING:** A copy of completed Corrective Action Worksheet should be posted for employee review.



**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC

**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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The alleged violations below have been grouped because they involve similar or related hazards that may increase the potential for injury or illness.

**Citation 1 Item 1 a** Type of Violation: **Serious**

29 CFR 1910.119(d)(1)(vi): Process safety information (PSI) pertaining to the hazards of the highly hazardous chemicals in the process did not contain thermal and chemical stability data of the chemicals used in the process:

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, process safety information for the processes of synthesizing, purification, transfilling(mixing), etc. of Diborane and its mixtures did not contain information on the thermal degradation and reactivity of the product during the manufacturing. The facility failed to stipulate temperature limits for the aluminum vessels and for the chemical(s) inside the vessels. Employees working on and in the vicinity of equipment containing highly hazardous chemicals were exposed to fire, explosion, respiratory and contact hazards.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:

December 01, 2023

Proposed Penalty:

\$10,938.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.



**U.S. Department of Labor**  
Occupational Safety and Health Administration

**Inspection Number:** 1668213  
**Inspection Date(s):** 05/05/2023 - 11/02/2023  
**Issuance Date:** 11/03/2023



**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC  
**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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**Citation 1 Item 1 b** Type of Violation: **Serious**

29 CFR 1910.119(d)(2)(i)(D): Process safety information pertaining to the technology of the process did not include the safe upper and lower limits for such items as temperatures, pressures, flows or compositions:

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, process safety information was incomplete; in that the documents provided did not properly include safe upper and lower limits for temperatures concerning vessels used in the process of synthesizing, purification, transfilling(mixing), etc. of Diborane and its mixtures. The facility failed to stipulate temperature limits for the aluminum vessels and for the chemical(s) inside the vessel. Employees working on and in the vicinity of equipment containing highly hazardous chemicals were exposed to fire, explosion, respiratory and contact hazards.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated: December 01, 2023  
Proposed Penalty: \$0.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

**U.S. Department of Labor**  
Occupational Safety and Health Administration

**Inspection Number:** 1668213  
**Inspection Date(s):** 05/05/2023 - 11/02/2023  
**Issuance Date:** 11/03/2023



**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC  
**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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**Citation 1 Item 1 c** Type of Violation: **Serious**

29 CFR 1910.119(d)(2)(i)(E): Information concerning the technology of the process did not include an evaluation of the consequences of deviations, including those affecting the safety and health of employees:

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, information concerning the technology of the process system information required in the process the employer failed to include an evaluation of consequences of exceeding temperature limits for the vessels and the chemical(s) within them as required for the processes using diborane. Failure to accurately establish safe operating limits for process involved in the production of diborane and evaluating consequences of exceeding limits led to the employees working on and in the vicinity of the highly hazardous chemical being exposed to fire, explosion, respiratory and contact hazards.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:	December 01, 2023
Proposed Penalty:	\$0.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

**U.S. Department of Labor**  
Occupational Safety and Health Administration

**Inspection Number:** 1668213  
**Inspection Date(s):** 05/05/2023 - 11/02/2023  
**Issuance Date:** 11/03/2023



**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC  
**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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**Citation 1 Item 2** Type of Violation: **Serious**

29 CFR 1910.119(e)(3)(i): The process hazard analysis did not address the hazards of the process:

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, the employer did not conduct a PHA that adequately addressed the issue of the hazards related to impure or contaminated materials that may be produced in mixing and reaction processes. Activities concerning vessels used in the process of synthesizing, purification, transfilling(mixing), etc. of Diborane and its mixtures may produce by-products that affect the stability of vessels when heated. Employees working on and in the vicinity of equipment containing highly hazardous chemicals are exposed to fire, explosion, respiratory and contact hazards.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:	December 01, 2023
Proposed Penalty:	\$10,938.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.



**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC

**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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The alleged violations below have been grouped because they involve similar or related hazards that may increase the potential for injury or illness.

**Citation 1 Item 3 a** Type of Violation: **Serious**

29 CFR 1910.119(e)(5): The employer shall establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken; complete actions as soon as possible; develop a written schedule of when these actions are to be completed; communicate the actions to operating, maintenance and other employees whose work assignments are in the process and who may be affected by the recommendations or actions.

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, the employer failed to promptly address Process Hazard Analysis recommendations, track resolutions of the recommendations as soon as possible and communicate the actions to operating employees who may be affected by the recommendations or actions. Employees working on and in the vicinity of equipment containing highly hazardous chemicals were exposed to fire, explosion, respiratory and contact hazards.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:

December 01, 2023

Proposed Penalty:

\$10,938.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

**U.S. Department of Labor**  
Occupational Safety and Health Administration

**Inspection Number:** 1668213  
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**Issuance Date:** 11/03/2023



**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC  
**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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**Citation 1 Item 3 b** Type of Violation: **Serious**

29 CFR 1910.119(e)(7): Employers shall retain process hazards analyses and updates or revalidations for each process covered by this section, as well as the documented resolution of recommendations described in paragraph (e)(5) of this section for the life of the process.

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, the employer failed to retain and address Process Hazard Analysis recommendations and track resolutions of the recommendations. Employees were exposed to fire, explosion, respiratory and contact hazards.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:	December 01, 2023
Proposed Penalty:	\$0.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

**U.S. Department of Labor**  
Occupational Safety and Health Administration

**Inspection Number:** 1668213  
**Inspection Date(s):** 05/05/2023 - 11/02/2023  
**Issuance Date:** 11/03/2023



**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC

**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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**Citation 1 Item 4** Type of Violation: **Serious**

29 CFR 1910.119(f)(1)(ii): The employer's written operating procedures did not address the requirements for the operating limits related to temperatures of cylinders:

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, the employer's written operating procedures were incomplete; in that the documents provided did not properly include safe instructions for chemical transfer activities concerning vessel exposure to heat before, during and after the process of synthesizing, purification, transfilling(mixing), etc. of Diborane and its mixtures. Employees working on and in the vicinity of equipment containing highly hazardous chemicals were exposed to fire, explosion, respiratory and contact hazards.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:

December 01, 2023

Proposed Penalty:

\$10,938.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

**U.S. Department of Labor**  
Occupational Safety and Health Administration

**Inspection Number:** 1668213  
**Inspection Date(s):** 05/05/2023 - 11/02/2023  
**Issuance Date:** 11/03/2023



**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC  
**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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**Citation 1 Item 5** Type of Violation: **Serious**

29 CFR 1910.119(j)(6)(ii): Appropriate checks and inspections shall be performed to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions.

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, the employer exposed employees to fire and explosion hazards in that the employer failed to require and complete inspections and checks to assure design and manufacturers specifications are met with equipment such as, but not limited to vacuum pumps and heat guns used in the process of synthesizing, purification, transfilling(mixing), etc. of Diborane and its mixtures.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:	December 01, 2023
Proposed Penalty:	\$10,938.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.



## **Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC

**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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### **Citation 1 Item 6** Type of Violation: **Serious**

29 CFR 1910.307(c)(2)(i): Equipment in hazardous (classified) location(s) was not approved for the ignitable or combustible properties of the specific gas, vapor, dust, or fiber that was or could be present:

- a) On or about May 4, 2023, within the H-Space building number 3 in the Synthesis 1 Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use improperly rated equipment such as, but not limited to vacuum pumps within a Class I Division II Group B manifold/hood while synthesizing a flammable chemical.
- b) On or about May 4, 2023, within the H-Space building number 3 in the Synthesis 2 Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use improperly rated equipment such as, but not limited to vacuum pumps within a Class I Division II Group B manifold/hood while synthesizing a flammable chemical.
- c) On or about May 4, 2023, within the H-Space building number 3 in the Mixing 1 Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use improperly rated equipment such as, but not limited to vacuum pumps within a Class I Division II Group B manifold/hood while mixing/transfilling a flammable chemical.
- d) On or about May 4, 2023, within the H-Space building number 3 in the Mixing 2 Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use improperly rated equipment such as, but not limited to vacuum pumps within a Class I Division II Group B manifold/hood while mixing/transfilling a flammable chemical.
- e) On or about May 4, 2023, within the H-Space building number 3 in the Mixing 3 Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use improperly rated equipment such as, but not limited to vacuum pumps within a Class I Division II Group B manifold/hood while mixing/transfilling a flammable chemical.
- f) On or about May 4, 2023, within the H-Space building number 3 in the Purification Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use improperly rated equipment such as, but not limited to vacuum pumps within a Class I Division II Group B manifold/hood while purifying/distilling a flammable chemical.

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.





**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC

**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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g) On or about May 4, 2023, within the H-Space building number 3 in the Cryotrap Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use improperly rated equipment such as, but not limited to vacuum pumps within a Class I Division II Group B manifold/hood while cryotrapping a flammable chemical.

h) On or about May 4, 2023, within the H-Space building number 3 in the Quality Control Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use improperly rated equipment such as, but not limited to vacuum pumps within a Class I Division II Group B manifold/hood while checking quality of the products of a flammable chemical.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:

December 01, 2023

Proposed Penalty:

\$10,938.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

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**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC

**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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The alleged violations below have been grouped because they involve similar or related hazards that may increase the potential for injury or illness.

**Citation 1 Item 7 a** Type of Violation: **Serious**

29 CFR 1910.307(g)(2)(ii): Each room, section, or area was not considered individually in determining its classification.

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, the employer exposed employees to fire, explosion, respiratory and contact hazards, in that the H-Space or Building 3 was not electrically classified properly as a Class I Division II environment where diborane would become hazardous in case of an accident or some unusual operating condition.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:  
Proposed Penalty:

December 01, 2023  
\$10,938.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

**U.S. Department of Labor**  
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**Inspection Number:** 1668213  
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**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC

**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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**Citation 1 Item 7 b** Type of Violation: **Serious**

29 CFR 1910.119(d)(3)(i)(C): Electrical classification; In instances of areas within the same facility classified separately, Class I, Zone 2 locations may abut, but not overlap, Class I, Division 2 locations. Class I, Zone 0 or Zone 1 locations may not abut Class I, Division 1 or Division 2 locations.

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, the employer exposed employees to fire, explosion, respiratory and contact hazards, in that the H-Space or Building 3 was not electrically classified properly as a Class I Division II environment where diborane would become hazardous in case of an accident or some unusual operating condition.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:  
Proposed Penalty:

December 01, 2023  
\$0.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

**U.S. Department of Labor**  
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**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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**Citation 1 Item 7 c** Type of Violation: **Serious**

29 CFR 1910.119(d)(3)(ii): The employer did not document that equipment complies with recognized and generally accepted good engineering practices.

a) For the facility located at 17526 High Springs Main Street, High Springs, Florida: On or about May 4, 2023, the employer exposed employees to fire, contact and explosion hazards in that the employer required and failed to document that equipment such as, but not limited to, heat guns used in the process of synthesizing, purification, transfilling(mixing), etc. of Diborane and its mixtures complied with recognized and generally accepted good engineering practices as identified in the equipment's manufacturer's manual.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:  
Proposed Penalty:

December 01, 2023  
\$0.00

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.



## **Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC

**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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### **Citation 2 Item 1**    Type of Violation: **Willful - Serious**

29 CFR 1910.307(c): Equipment, wiring methods, and installations of equipment in hazardous (classified) locations were not intrinsically safe, approved for the hazardous (classified) location, or safe for the hazardous (classified) location:

- a) On or about May 4, 2023, within the H-Space building number 3 in the Synthesis 1 Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use equipment such as, but not limited to, heat guns that were not intrinsically safe or designed to be used within a Class I Division II Group B manifold/hood where flammable chemicals and vapors are present while synthesizing Diborane.
- b) On or about May 4, 2023, within the H-Space building number 3 in the Synthesis 2 Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use equipment such as, but not limited to, heat guns that were not intrinsically safe or designed to be used within a Class I Division II Group B manifold/hood where flammable chemicals and vapors are present while synthesizing Diborane.
- c) On or about May 4, 2023, within the H-Space building number 3 in the Mixing 1 Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use equipment such as, but not limited to, heat guns that were not intrinsically safe or designed to be used within a Class I Division II Group B manifold/hood where flammable chemicals and vapors are present while mixing/transfilling Diborane and its mixtures.
- d) On or about May 4, 2023, within the H-Space building number 3 in the Mixing 2 Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use equipment such as, but not limited to, heat guns that were not intrinsically safe or designed to be used within a Class I Division II Group B manifold/hood where flammable chemicals and vapors are present while mixing/transfilling Diborane and its mixtures.
- e) On or about May 4, 2023, within the H-Space building number 3 in the Mixing 3 Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use equipment such as, but not limited to, heat guns that were not intrinsically safe or designed to be used within a Class I Division II Group B manifold/hood where flammable chemicals and vapors are present while mixing/transfilling Diborane and its mixtures.

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.



**Citation and Notification of Penalty**

**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC

**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

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f) On or about May 4, 2023, within the H-Space building number 3 in the Purification Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use equipment such as, but not limited to, heat guns that were not intrinsically safe or designed to be used within a Class I Division II Group B manifold/hood where flammable chemicals and vapors are present while purifying/distilling Diborane.

g) On or about May 4, 2023, within the H-Space building number 3 in the Cryotrap Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use equipment such as, but not limited to, heat guns that were not intrinsically safe or designed to be used within a Class I Division II Group B manifold/hood where flammable chemicals and vapors are present while cryotrapping flammable chemicals.

h) On or about May 4, 2023, within the H-Space building number 3 in the Quality Control Hood/Manifold, the employer exposed employees to fire and explosion hazards in that the employer required employees to use equipment such as, but not limited to, heat guns that were not intrinsically safe or designed to be used within a Class I Division II Group B manifold/hood where flammable chemicals and vapors are present while checking quality of flammable chemicals.

**ABATEMENT DOCUMENTATION REQUIRED FOR THIS ITEM**

Date By Which Violation Must be Abated:

December 01, 2023

Proposed Penalty:

\$125,007.00

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**David Tisdale**  
Area Director

See pages 1 through 4 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.



**U.S. Department of Labor**  
Occupational Safety and Health Administration  
1851 Executive Center Drive  
Suite 227  
Jacksonville, FL 32207



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## INVOICE / DEBT COLLECTION NOTICE

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**Company Name:** Air Liquide Advanced Materials, Inc., dba Air Liquide Advanced Materials of Florida, LLC

**Inspection Site:** 17526 High Springs Main Street, High Springs, FL 32643

**Issuance Date:** 11/03/2023

Summary of Penalties for Inspection Number: 1668213

Citation 1 Item 1a, Serious	\$10,938.00
Citation 1 Item 1b, Serious	\$0.00
Citation 1 Item 1c, Serious	\$0.00
Citation 1 Item 2, Serious	\$10,938.00
Citation 1 Item 3a, Serious	\$10,938.00
Citation 1 Item 3b, Serious	\$0.00
Citation 1 Item 4, Serious	\$10,938.00
Citation 1 Item 5, Serious	\$10,938.00
Citation 1 Item 6, Serious	\$10,938.00
Citation 1 Item 7a, Serious	\$10,938.00
Citation 1 Item 7b, Serious	\$0.00
Citation 1 Item 7c, Serious	\$0.00
Citation 2 Item 1, Willful - Serious	\$125,007.00

**TOTAL PROPOSED PENALTIES:** **\$201,573.00**

To avoid additional charges, please remit payment promptly to this Area Office for the total amount of the uncontested penalties summarized above. Make your check or money order payable to: "DOL-OSHA". Please indicate OSHA's Inspection Number (indicated above) on the remittance. You can also make your payment electronically at [www.pay.gov](http://www.pay.gov). At the top of the pay.gov homepage, type "OSHA" in the Search field and select Search. From the **OSHA Penalty Payment Form** search result, select Continue. The direct link is: <https://www.pay.gov/paygov/forms/formInstance.html?agencyFormId=53090334>. You will be required to enter your inspection number when making the payment. Payments can be made by credit card or Automated Clearing House (ACH) using your banking information. Payments of \$25,000 or more require a Transaction ID, and also must be paid using ACH. If you require a Transaction ID, please contact the OSHA Debt Collection Team at (202) 693-2170.

OSHA does not agree to any restrictions or conditions or endorsements put on any check, money order, or electronic payment for less than the full amount due, and will cash the check or money order as if these



restrictions or conditions do not exist.

If a personal check is issued, it will be converted into an electronic fund transfer (EFT). This means that our bank will copy your check and use the account information on it to electronically debit your account for the amount of the check. The debit from your account will then usually occur within 24 hours and will be shown on your regular account statement. You will not receive your original check back. The bank will destroy your original check, but will keep a copy of it. If the EFT cannot be completed because of insufficient funds or closed account, the bank will attempt to make the transfer up to two times.

Pursuant to the Debt Collection Act of 1982 (Public Law 97-365) and regulations of the U.S. Department of Labor (29 CFR Part 20), the Occupational Safety and Health Administration is required to assess interest, delinquent charges, and administrative costs for the collection of delinquent penalty debts for violations of the Occupational Safety and Health Act.

**Interest:** Interest charges will be assessed at an annual rate determined by the Secretary of the Treasury on all penalty debt amounts not paid within one month (30 calendar days) of the date on which the debt amount becomes due and payable (penalty due date). The current interest rate is one percent (1%). Interest will accrue from the date on which the penalty amounts (as proposed or adjusted) become a final order of the Occupational Safety and Health Review Commission (that is, 15 working days from your receipt of the Citation and Notification of Penalty), unless you file a notice of contest. Interest charges will be waived if the full amount owed is paid within 30 calendar days of the final order.

**Delinquent Charges:** A debt is considered delinquent if it has not been paid within one month (30 calendar days) of the penalty due date or if a satisfactory payment arrangement has not been made. If the debt remains delinquent for more than 90 calendar days, a delinquent charge of six percent (6%) per annum will be assessed accruing from the date that the debt became delinquent.

**Administrative Costs:** Agencies of the Department of Labor are required to assess additional charges for the recovery of delinquent debts. These additional charges are administrative costs incurred by the Agency in its attempt to collect an unpaid debt. Administrative costs will be assessed for demand letters sent in an attempt to collect the unpaid debt.

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**David Tisdale**  
Area Director

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Date