



U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

April 8, 2025

Jennifer Kuo Teledyne Scientific & Imaging 1049 Camino Dos Rios Thousand Oaks, CA 91360

Reference No. 25-0017

Dear Ms. Kuo:

This letter is in response to your February 11, 2025 email requesting clarification of the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180) applicable to the use of the United Nations (UN) identification number and proper shipping name "UN1396, Aluminum powder, uncoated." Specifically, you ask if there is a particle size limit with respect to the use of this hazardous materials description.

No. While certain hazardous materials descriptions and proper shipping names in the § 172.101 Hazardous Materials Table (HMT) limit use of the entry (e.g., a concentration range, particle size, energy capacity, etc.), the entry for "UN1396, Aluminum powder, uncoated" does not specify limiting criteria for particle size. Furthermore, the test method in the UN Manual of Tests and Criteria do not specify a particle size. Hazardous materials that may be dangerous when wet, such as aluminum powder, uncoated, are classified based on the results of testing (i.e., UN Test N.5, Test method for substances which in contact with water emit flammable gases, see Section 33.5 of the UN Manual of Tests and Criteria) irrespective of particle size.

Ultimately, as provided in § 173.22, it is the shipper's responsibility to properly classify and describe a hazardous material based on the classification criteria provided in the HMR.

I hope this information is helpful. Please contact us if we can be of further assistance.

Sincerely,

Dirk Der Kinderen

Chief, Standards Development Branch Standards and Rulemaking Division
 From:
 INFOCNTR (PHMSA)

 To:
 Dodd, Alice (PHMSA)

 Cc:
 Hazmat Interps

Subject: FW: Request for letter of interpretation

Date: Wednesday, February 12, 2025 12:02:33 PM

Good afternoon Alice,

See the attached interpretation request. Let us know if you need anything else.

Best, Aminah

From: Kuo, Jennifer (US) < Jennifer. Kuo@Teledyne.com>

Sent: Tuesday, February 11, 2025 3:59 PM

To: INFOCNTR (PHMSA) <INFOCNTR.INFOCNTR@dot.gov>

Subject: Request for letter of interpretation

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Hello,

I would like to request a letter of interpretation on the specific description of UN 1396, Aluminum powder, uncoated. I am looking for the particle size that this UN number covers. Specifically, I would like to know how large a particle is considered a powder with respect to this UN designation. I have not been able to find the particle size defined for this particular chemical.

Please send the information to:
Jennifer Kuo
Teledyne Scientific
1049 Camino Dos Rios
Thousand Oaks, CA 91360
(805)373-4536
Jennifer.Kuo@teledyne.com

Please let me know if you have questions on my request.

Thank you, Jennifer Kuo

Jennifer.Kuo@teledyne.com

(805)373-4536

Teledyne Scientific & Imaging

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