U.S. Department
of Transportation

**Research and
Special Programs
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

JUN 23 1998

Mr. Thomas M. Riederer
Sumitomo Corporation of America
5000 USX Tower
600 Grant Street
Pittsburgh, PA. 15219

Ref. No.: 98-0133

Dear Mr. Riederer:

This is in response to your letter of June 15, 1998, regarding the classification of your product, containing 75% ferrosilicon under the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180). You state that you have had your product tested in accordance with the test method described in Appendix E to Part 173, and found it does not meet the definition of a Dangerous When Wet material.

As provided in § 173.22, it is the shipper's responsibility to properly classify a hazardous material; however, based on the test data you provided, we agree that your product with 75% ferrosilicon does not meet the definition of a Division 4.3 (Dangerous When Wet) material. Therefore, if your company's product does not meet any other hazard class definition in Part 173, it is not subject to the HMR.

I hope this satisfies your request.

Sincerely,

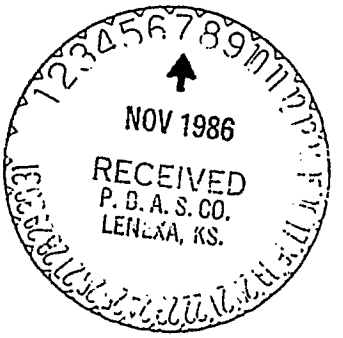
John A. Gale
Transportation Regulations Specialist
Office of Hazardous Materials Standards

U.S. Department
of Transportation

**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

NOV 4 1986



Mr. Kenton D. Warner
Chemical Products Manager
Puritan-Bennett Aero Systems Co.
10800 Pflumm Road
Lenexa, Kansas 66215-2198

Dear Mr. Warner:

This is in response to your letter dated October 1, 1986, concerning the classification of chemical oxygen generators containing sodium chlorate.

Based on review of the information submitted with your letter, it is our opinion that the oxidizer hazard posed by sodium chlorate in the described oxygen generators is minimal and is secondary to the hazard posed by the heat generated by the devices. Therefore, it is our determination that these devices may appropriately be classed as "flammable solid" under the defining criteria in 49 CFR 173.150 and may be shipped under the shipping description "Flammable solid, n.o.s., UN 1325."

This response has been coordinated with the Federal Aviation Administration. If we can be of further assistance, please contact us.

Sincerely,

Thomas J. Charlton

Thomas J. Charlton
Chief, Standards Division
Office of Hazardous Materials
Transportation

SUMITOMO CORPORATION
OF AMERICA

June 15, 1998

Mr. Edward Mazzullo
Director, Office of Hazardous Materials Standards
(DHM-10)
US Department of Transportation
400 7th Street SW
Washington, DC 20590

Dear Mr. Mazzullo,

The enclosed information outlines the testing results of Sumitomo's/Fesil's 75% Ferro Silicon material in accordance with DOT Standard 173, Appendix E, Division 4.3 (Dangerous when wet material). Andrew S. McCreath & Son, Inc. have concluded that this material should not be classified as dangerous when wet. The material does not meet any other hazard class definition in Part 173.

Please verify that this material does not meet the definition of a Division 4.3 (Dangerous when wet material), and therefore should not be classified as dangerous when wet.

Best regards,

Thomas M. Riederer
Sales Manager, Ferroalloy

Enclosure

TR/jl

5000 USX Tower
600 Grant Street
Pittsburgh, PA 15219
Tel. 412-391-1892
Fax 412-765-2623

Andrew S. McCreath & Son, Inc.
ANALYTICAL AND CONSULTING CHEMISTS

610 Willow Street
P.O. Box 1453
Harrisburg, PA 17105-1453
Telephone: (717) 238-9331
Telex: 84-2321
Fax: (717) 238-4843

FACSIMILE COVER SHEET

TO: Sumitomo Corp. of America DATE: June 11, 1998

ATTN: Jennifer Lucas

FROM: Dick Conlin

NUMBER OF PAGES 3 (Including Cover Sheet)

Attached is our report of testing according to DOT specifications. The results show that the material should not be classified as dangerous when wet in accordance with Division 4.3 under Hazardous Materials regulations.

We will mail the report today. If you have any questions, please contact us at your convenience.

Andrew S. McGreath & Son, Inc.
ANALYTICAL AND CONSULTING CHEMISTS

610 Willow Street
P.O. Box 1453
Harrisburg, PA 17105-1453
Telephone: (717) 238-9331
Telex: 84-2321
Fax: (717) 238-4843

June 11, 1998

Sumitomo Corporation of America
5000 USX Tower
600 Grant Street
Pittsburgh, Pennsylvania 15219

Gentlemen:

The sample received from Rukerts Terminal Corp., Batlimore, Maryland on June 4, 1998, identified as: 75% Ferro Silicon, Bin 73, was tested in accordance with DOT Standard 173, Appendix E, Division 4.3 (Dangerous when wet material). Results are as follows:

Spontaneous Ignition Test

Division 4.3 a (1)	No Spontaneous Ignition
Division 4.3 a (2)	No Spontaneous Ignition
Division 4.3 a (3)	No Spontaneous Ignition

Gas Evolution Measurement

Total volume in Ml each hour.

Time Interval	Test 1	Test 2	Test3
1 Hour	0.60 Ml	0.30 Ml	0.40 Ml
2 Hour	0.90 Ml	0.60 Ml	0.80 Ml
3 Hour	1.10 Ml	0.90 Ml	1.10 Ml
4 Hour	1.50 Ml	1.10 Ml	1.50 Ml
5 Hour	2.20 Ml	1.30 Ml	1.90 Ml
6 Hour	2.50 Ml	1.80 Ml	2.20 Ml
7 Hour	2.80 Ml	1.90 Ml	2.40 Ml
Total	2.80 Ml	1.90 Ml	2.40 Ml

Maximum Rate - 0.028 liter/hour/kilogram

Average Rate - 0.014 liter/hour/kilogram

Yours very truly,

ANDREW S. McCREATH & SON, INC.