



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

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

NOV 27 2001

Ref. No: 01-0260

Mr. Rick Krukowski
TFS Manager
Alternative Disposal, Inc.
2674 Via Alcia
Fallbrook, CA 92028

Dear Mr. Krukowski:

This is in response to your October 9, 2001, letter requesting clarification on the proper shipping description for a bromine solution under the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180). Specifically, you ask whether a dilute bromine solution must be shipped as a material poisonous by inhalation in Hazard Zone A, as stipulated by the plus sign in Column 1 of the Hazardous Materials Table in § 172.101, or if it may be described as a material poisonous by inhalation in Hazard Zone B as determined by calculations determined under § 173.133.

As you are aware, the plus sign in column 1 fixes the proper shipping name, hazard class and packing group for an entry without regard to whether the material meets the definition for that class, etc. A dilute bromine solution that has been determined to meet Hazard Zone B for a material poisonous by inhalation may only be described as such if approved in accordance with § 172.101(1)(2).

I hope this information is helpful.

Sincerely,

Delmer F. Billings
Chief, Standards Development
Office of Hazardous Materials Standards



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173.116

Class A Hazardous General Engineering Contractor #643543

Full Service Hazardous Waste Management

Alternative Disposal, Inc.

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To: Edward Mazzullo
Department of Transportation - R&SPA

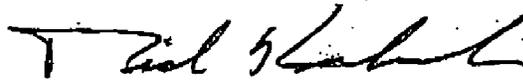
From: Rick Krukowski
Alternative Disposal, Inc.
2674 Via Alicia
Fallbrook, CA 92028

La Valle
§ ~~172.101~~ 1
Packing Group
01-0260
§ 172.101 (b)

The following is asking for clarification to the rule.

A dilute bromine solution was shipped from generators site as : Bromine Solutions , 8 , UN 1744 , PG I (Poison Inhalation Hazard Zone B). The dilution factor was calculated and determined to be a "Zone B" material (as opposed to Zone A as listed in the Provision #1 of the HMT) (The reference to this material being Zone A refers to 2.1 and 2.2 Gases (49CFR 173.116).) The receiving facility rejected the Zone B reference due to the " + " in column 1 of the HMT, stating that the description cannot be changed in any manner. In a dilute state can Bromine Solution be shipped as a Zone B Inhalation Hazard if the characteristics of the material is determined to have a Zone B characteristics?

Thank you for your time,



Rick Krukowski
TFS Manager

760
02
9321