U.S. Department
of Transportation

**Research and
Special Programs
Administration**

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

**DOT-E 8410 (EXTENSION)**
**ORIGINAL September 15, 1986**
**CORRECTED COPY**

In accordance with 49 CFR 107.105 of the Department of Transportation (DOT) Hazardous Materials Regulations DOT-E 8410 is hereby extended for the party(ies) listed below by changing the expiration date in paragraph 10 to December 31, 1993. This change is effective from the issue date of this extension. All other terms of the exemption remain unchanged.

This extension applies only to party(ies) listed below based on the application(s) received in accordance with 49 CFR 107.105. This extension constitutes a necessary part of this exemption and must be attached to it.

for Suzanne Hedgepeth
Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

JAN 15 1992
(DATE)

Dist: FHWA USCG

| EXEMPTION HOLDER | APPLICATION DATE |
|---|---|
| EM Science<br>Cincinnati, OH | November 18, 1991 |

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DOT-E 8410
(CORRECTED COPY) SEP 15 1986

1. MCB Manufacturing Chemists Inc., Cincinnati, Ohio, is hereby granted an exemption from those provisions of this Department's Hazardous Materials Regulations specified in paragraph 5 below to offer packages prescribed herein of a certain oxidizer for transportation in commerce subject to the limitations and special requirements specified herein. This exemption authorizes the shipment of perchloric acid no greater than 72% strength in glass bottles, not exceeding a capacity of 2.5 liters, packed in non-DOT Specification IMCO 4C2 wooden box, and provides no relief from any regulation other than as specifically stated.

2. BASIS. This exemption is based on MCB Manufacturing Chemists Inc.'s application dated February 11, 1986, submitted in accordance with 49 CFR 107.105 and the public proceeding thereon.

3. HAZARDOUS MATERIALS (Descriptor and class). Perchloric acid solution, 50% to 72% strength, classed as an oxidizer.

4. PROPER SHIPPING NAME (49 CFR 172.101). Perchloric acid, not exceeding 72% strength.

5. REGULATION AFFECTED. 49 CFR 173.269(a)(1).

6. MODES OF TRANSPORTATION AUTHORIZED. Motor vehicle and cargo vessel.

7. SAFETY CONTROL MEASURES. Packaging prescribed is non-DOT specification wooden box (IMCO Specification 4C2), with inside packagings consisting of glass bottles, not exceeding a capacity of 2.5 liters (5 pints) each. Bottles must be cushioned with incombustible mineral material in an amount sufficient to absorb the acid. Each box (depicted in drawing furnished in petitioner's application) must contain no more than six bottles containing 2.5 liters each or 10 bottles containing one liter each. Box, closed as for shipment, must be capable of satisfactorily withstanding the performance tests (five free fall drops on bottom, top, two sides, and a corner, from a height of six feet) prescribed in Annex 1 of the IMDG Code for Specification 4C2 wooden box.

8. SPECIAL PROVISIONS.

a. Persons who receive packages covered by this exemption may reship them pursuant to the provisions of 49 CFR 173.22a.

b. A copy of this exemption must be carried aboard each vessel used to transport packages covered by this exemption.

9. REPORTING REQUIREMENTS. Any incident involving loss of contents of the package must be reported to the Office of Hazardous Materials Transportation as soon as practicable.

10. EXPIRATION DATE. March 15, 1988.

Issued at Washington, D.C.:

J. Suzanne Hedgepeth

Alan I. Roberts
Director
Office of Hazardous Materials Transportation

SEP 15 1986
(DATE)

Address all inquiries to: Director, Office of Hazardous Materials Transportation, Research and Special Programs Administration, U.S. Department of Transportation, Washington, D.C. 20590. Attention: Exemptions Branch.

Dist: USCG, FHWA, FRA