



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

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SB 22590, SA 02658
 SB 22589, SA 02662
 SB 22587, SA 02667
 SB 22586, SB 16339
 SB 11149, SB 22591 120197
 SB 16338, SB 21234
 SB 21233, SB 21545, SA 02693
 SB 21537, SA 02661, SB 16337
 SB 07260, SA 02664
 SA 02645, SA 02693 120197
 DOT-E 7887
 (SEVENTH REVISION)

H updated
5-24-01

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

MAR 29 2007

Facilities Management
HEALTH AND SAFETY

SB 17017
SB 25137
SB 21470

EXPIRATION DATE: February 28, 1998

(FOR RENEWAL, SEE 49 CFR SECTION 107.105.)

1. **GRANTEE:** Centuri Corporation d/b/a Estes Industries,
Penrose, CO.
(See Appendix A of this exemption)
2. **PURPOSE AND LIMITATION:** This exemption authorizes the transportation in commerce of limited quantities of certain explosive articles in prescribed packaging as Division 4.1 Flammable solid, n.o.s. This exemption applies to small rocket motors (model rocket motors NA0323 and NA0276) and reloadable model rocket motor kits containing not more than 62.5 grams of propellant per device or kit which have been classed as Division 1.4 explosives under 49 CFR 173.56. These articles may be of the reloadable type or the single-use expendable type. This exemption provides no relief from any regulation other than as specifically stated herein.
3. **REGULATORY SYSTEM AFFECTED:** 49 CFR Parts 106, 107 and 171-180.
4. **REGULATIONS FROM WHICH EXEMPTED:** Sections 172.101 and 175.3 (only insofar as model rocket motors and reloadable kits which are classed as Division 1.4C or 1.4S may be shipped as Division 4.1).

BASIS: This exemption is based on Centuri Corporation d/b/a Estes Industries' application dated March 18, 1996, submitted in accordance with 49 CFR 107.109.

6. **HAZARDOUS MATERIALS (49 CFR 172.101):**

Hazardous materials description/proper shipping name	Hazard Class/Division	Identification number	Packing Group
Flammable solids, n.o.s. (Model rocket motors and/or rocket motor reloading kits)	4.1	UN1325	II

7. **PACKAGING AND SAFETY CONTROL MEASURES:**

a. Rocket motor cases may not be made of a material (e.g., metal) or of a configuration that would present a penetration hazard.

b. **PACKAGING -**

I. For single-use expendable type devices:

- UN Specification 4C1 Boxes of natural wood
- UN Specification 4D Plywood boxes
- UN Specification 4F Boxes of reconstituted wood
- UN Specification 4G Fiberboard boxes

ii. For reloadable-type kits:

Each reloadable kit must be placed in a securely closed plastic bag at least 0.051mm (0.002 inches) thick as the inner packaging. Each inner packaging may contain a maximum of 62.5 grams of propellant, 8.3 grams of delay charge and 1.4 grams of ejection charge. Not more than 12 inner packagings must be placed in a fiberboard box intermediate packaging which must be packed in a Specification 4G fiberboard box. Intermediate packaging is not required for a package containing 12 or less inner packagings.

iii. The outer packages may not exceed 11.36 kg. 25 pounds gross weight when the individual devices each contain not more than 30 grams of propellant. They may not exceed 4.55 kg. (10 pounds) gross weight when the individual devices each contain more than 30 grams, but not more than 62.5 grams of propellant.

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8. **SPECIAL PROVISIONS:**

a. Persons who receive the hazardous materials covered by this exemption may reoffer them for transportation provided all terms of this exemption are complied with and a current copy of this exemption is maintained at each facility from which such reoffering occurs.

b. The devices and kits authorized under this exemption may be shipped in the same outer packaging with Division 1.4G igniters for the devices, and with nonhazardous materials needed to construct model rockets.

c. The authority to grant the relief provided within this exemption is limited to the extent that the United States government has authority over the transportation of the articles subject to this exemption. Transportation in accordance with this exemption outside of the United States may require the approval of governments of countries where these articles are so transported.


d. Packages shipped under this exemption may not be offered for transportation as Consumer Commodities, ORM-D.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel and cargo aircraft only.
10. MODAL REQUIREMENTS: A copy of this exemption must be carried aboard each cargo vessel or cargo aircraft used to transport packages covered by this exemption. The shipper shall furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law 49 U.S.C 5101 et seq.:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
 - o Registration required by 49 CFR 107.601 et seq., when applicable.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect unless a regulation has been amended making the exemption no longer necessary.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving explosion, fire or loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (49 CFR 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, persons using this exemption must inform the AAHMS, in writing, of any incidents involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:


Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

JUN - 2 1997

(DATE)

same as new one
5-24-01 KC

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

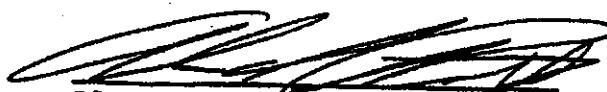
Dist: FHWA, FRA, FAA, USCG
P.O.: SCW

APPENDIX A

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with 49 CFR 107.111 and the public proceeding thereon or 107.105, as appropriate:

Company Name City/State	Applica- tion Date	PTE	Expiration Date	Issue Date
Flight Systems Inc. Raytown, MO	04/22/96	1	02/28/98	JUN - 2 1997
Quest Aerospace Education, Inc. Phoenix, AZ	06/01/96	2	02/28/98	JUN - 2 1997
AeroTech, Inc. Las Vegas, NV	02/23/96	3	02/28/98	04/08/96
Vulcan Systems, Inc. Colorado Springs, CO	03/17/96	4	02/28/98	JUN - 2 1997
North Coast Operations North Coast Rocketry Inc., Salt Lake City, UT	06/03/96	5	02/28/98	JUN - 2 1997
Luna Tech, Inc. Owens Cross Roads, AL	04/23/96	6	02/28/98	JUN - 2 1997
Kodson Enterprises Ventura, CA	04/16/96	7	02/28/98	JUN - 2 1997

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5-24-01



Alan I. Roberts
Associate Administrator for
Hazardous Materials Safety