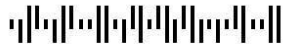


Return address: P.O. Box 480, 2501 CL Den Haag, The Netherlands

Exxfire B.V.  
Attn. Mr. E. Verver  
Keyzerswey 30  
2201 CW NOORDWIJK  
THE NETHERLANDS



Ypenburgse Boslaan 2  
2496 ZA Den Haag  
P.O. Box 480  
2501 CL The Hague  
The Netherlands

[www.tno.nl](http://www.tno.nl)

T +31 88 866 80 00

**Date**  
14 April 2022

**Our reference**  
22EM/0201

**Subject**

ADR classification spent gas generators

The General Terms and Conditions for commissions to TNO, as filed with the Registry of the District Court in the Hague and with the Chamber of Commerce and Industry in The Hague, shall apply to all commissions to TNO.  
Our General Terms and Conditions are also available on our website [www.tno.nl](http://www.tno.nl).  
A copy will be sent upon request.

Dear Mr. Verver,

This document supersedes document 17EM/0246 dated April 17<sup>th</sup> 2017 as a consequence of changes in regulations.

This document is to declare that your products, gas generators, after use contain dangerous goods if division 4.3 and therefore should be classified as Division 4.3; UN3543; "ARTICLES CONTAINING A SUBSTANCE WHICH IN CONTACT WITH WATER EMITS FLAMMABLE GASES, N.O.S."

In ADR marginal 1.1.3.6.3 this UN number is assigned to Transport Category 4 with an unlimited maximum total quantity per transport unit.

The spent gas generators can be transported in any (private) vehicle provided:

- they are packed in UN approved packagings;
- a transport document accompanies the shipment; and
- at least one portable fire extinguisher for the inflammability classes A, B and C, with a minimum capacity of 2 kg dry powder (or an equivalent capacity for any other suitable extinguishing agent) is present in the vehicle.

For sea transport (according to IMDG code) it is stated that this UN number "*shall be transported under conditions approved by the competent authority*".

Transport by air is forbidden in both passenger and cargo aircraft.

Yours faithfully,

  
Valid Signed by Ed de Jong  
on 2022-04-14 15:19:48

E.G. de Jong  
classification expert

Verneuil-en-Halatte September 01, 2016

CERTIFICATE

- 1- This certificate, issued by INERIS, an official laboratory in charge of testing explosive products, approves the classification of items listed hereafter, according to the recommendations of the United Nations Committee of Experts on the Transport of Dangerous Goods as published in UN Documents ST/SG/AC.10/1/Rev.19 and ST/SG/AC.10/11/Rev.6.
- 2- This certificate is based on the request of the Company APP - AEROSPACE PROPULSION PRODUCTS B.V., Westelijke Randweg 25, 4791 RT KLUNDERT - The Netherlands, dated March 17, 2016.
- 3- Item(s): nitrogen pyrotechnic generator for fire extinguishment reference CGG 750
- 4- Proper shipping name and UN number:  
SAFETY DEVICES, electrically initiated - UN 3268
- 5- UN classification: Class 9  
The classification is based on a technical file describing the products and their packaging, and on tests performed on representatively packed items.
- 6- Packing method:  
The generators, provided with a diffuser cap, are placed and chocked in a fibreboard box (outer packaging) - UN code 4G - of external dimensions 460 x 360 x 330 mm<sup>3</sup>.
- 7- This certificate enables to implement the provisions in the regulations on the transport of dangerous goods: ADR, RID, IMDG, ICAO, ADN.
- 8- Expiration date:  
This certificate cancels and replaces the certificate reference DSC-16-161181-07329A, PNEO-AgA 353/10 dated July 29, 2016. It remains valid until withdrawn or superseded by a revised certificate.



Certified by:  
  
C. MICHOT  
Chief Certification Officer