

SOCIETE DAVEY BICKFORD	SAFETY DATA FILE ELECTRIC DETONATORS WITH INTEGRATED ELECTRONIC DELAY	FDS 21 L 061 Version anglaise 12/07/2007	ind D
---------------------------------------	---	--	--------------

1. PRODUCT IDENTIFICATION - COMPANY NAME

COMMERCIAL DESIGNATION:

DAVEYTRONIC or DAVEYTRONIC III (Electric detonators with integrated programmable electronic delay

COMPANY: SNC DAVEY BICKFORD - 89550 HERY

Tel: 33 (0)3 86 47 30 00 - Fax: 33 (0)3 86 47 81 94

2. COMPOSITION / INFORMATION ON CONSTITUENTS

and/or Primary explosive 2 g max.
Secondary explosive 2 g max.

3. RISK IDENTIFICATION

Classification: explosive

4. FIRST AID

Emergency treatment and medical transport according to the type and magnitude of the injury.

In the event of an explosion nearby: have ears and hearing immediately checked (hearing test) by a specialist (ENT).

5. FIRE FIGHTING MEASURES

- Prohibited fire extinguishing agents: none
- Risk of detonation with effects dependent on the packaging (mass detonation for risk division 1.1; for risk division 1.4, an outside fire will not incur the instantaneous explosion of the whole package).
- Evacuate the immediate perimeter of the fire.

6. MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL RELEASE

Explosive materials other than pyrotechnic devices which are accidentally dispersed are to be collected for removal and destruction.

In this event, make sure:

- that all impacts, friction and other sources of sparks are avoided.
- that all sources of heat are kept at a distance, and that no naked flame is brought near.
- Remove all other pyrotechnic items: handling of materials can cause an explosion
- if the packaging of pyrotechnic devices is broken, that the devices concerned are transferred to a receptacle made of wood or cardboard, taking care to avoid all forms of commotion (impact, spark, heat etc.).

7. HANDLING AND STORAGE

The characteristics of the present file correspond to a product less than 2 years old. Keep in accordance with normal precautions and conditions of handling and storage.

Smoking prohibited

The compatibility group depends on the packaging:

B : The items in compatibility group B contain a primary explosive substance with less than 2 effective safety devices.

or S : The items in compatibility group S are packaged or designed in such a way as to limit all dangerous effects resulting from accidental functioning to the interior of the package.

Storage temperature: -40°C / +70° C

Handling precautions:

- Handle with care.
- Goods handling machines must be designed and used in order to prevent falls, dispersion and any form of contamination of these items. The appropriate protective systems for these machines are to be determined after examination.

<i>Légende : texte en bleu = modification</i>			Modifiée par A. POUDRE	
MCTP ///////////////// Y. SARREY	SECU ///////////////// S. GAUTREAU	CEH ///////////////// P. PINET	DI / Point focal SECU NITRO BICKFORD (Serveur DOC NB)	Logistique SGDT (word)
CREATION	VALIDATION	APPROBATION	DESTINATAIRES	

SOCIETE DAVEY BICKFORD	SAFETY DATA FILE ELECTRIC DETONATORS WITH INTEGRATED ELECTRONIC DELAY	FDS 21 L 061 Version anglaise 12/07/2007	ind D
---------------------------------------	---	--	-------

8. EXPOSURE CONTROL – INDIVIDUAL PROTECTION

Individual safety precautions during normal use:

- Do not smoke
- Use ear protectors if necessary

9. PHYSICO-CHEMICAL PROPERTIES

Outside packing: Detonation

Inside packing: Different eventualities:

- Risk division 1.1: risk of mass explosion
- Risk division 1.4: No mass explosion in the event of fire or detonator triggering.

The effects are limited to the package of compatibility group S

10. STABILITY - REACTIVITY

- The Series 4000 electric detonators contain substances which remain stable at normal storage temperatures (below 50°C) and will not produce a violent reaction below 100°C.
- Please contact us for information in case of risk of exposure to temperatures higher than this.

11. TOXICOLOGICAL INFORMATION

- In the event of malfunction of a pyrotechnic device resulting in active basic substances being laid bare, avoid contact with same.
- Do not swallow these substances.

12. ECOTOXOLOGICAL INFORMATION

None to our knowledge.

13. FACTORS CONCERNING WASTE ELIMINATION

- Do not put into a waste bin or dump. All waste should be processed by an approved company and in accordance with applicable legislation.
- Operations to destroy pyrotechnic products by explosion or incineration must be carried out in an area specially designated for that purpose, with personnel being duly protected.
- The operating methods, instructions and recommendations for the destruction of pyrotechnic products as well as the means for protecting personnel are to be defined by a safety study which is in particular to stipulate the maximum admissible charges in relation to the environment and personnel to be protected.
- Explosive materials are not to be mixed with initiating devices during destruction of the latter.

14. TRANSPORT INFORMATION

Before being transported, all Class 1 objects or materials must obtain a transport approval, attributed on the basis of the packing conditions.

Transport class:

UN No. 0030	Electrical blasting detonators for use in mines	Division 1.1 B
UN No. 0255	Electrical blasting detonators for use in mines	Division 1.4 B
UN No. 0456	Electrical blasting detonators for use in mines	Division 1.4 S

15. STATUTORY INFORMATION

- Identification and labelling in compliance with product class (see § above)

16. OTHER DATA

The present file in no way exempts users of the item in question from referring to the official texts in order to ascertain all the obligations to which they are liable.

The information contained in the present file is based on the state of our knowledge with regard to the item in question as of its date of edition.

The present file is not exhaustive and only refers to normal use of the product in question.

Légende : texte en bleu = modification			Modifiée par A. POUFRE	
MCTP ///////////////// Y. SARREY	SECU ///////////////// S. GAUTREAU	CEH ///////////////// P. PINET	DI / Point focal SECU NITRO BICKFORD (Serveur DOC NB)	Logistique SGDT (word)
CREATION	VALIDATION	APPROBATION	DESTINATAIRES	