

# Material Safety Data Sheet

## *Daveytronic® Electronic Detonator*

### **1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

<b>1-1 Product Identification :</b>	<b>ELECTRONIC DETONATOR DAVEYTRONIC DETONATOR</b>
<b>1-2 Product Use</b>	Pyrotechnic Initiation
<b>1-3 Company</b>	SNC DAVEY BICKFORD Le Moulin Gaspard 89 550 HERY FRANCE <a href="mailto:dir-usine@daveybickford.fr">dir-usine@daveybickford.fr</a>
<b>1-4 Emergency Call</b>	Tel : + 33 3 86 47 30 00 Fax : + 33 3 86 47 81 94 24 Hour Phone (France only) : ORFILA + 33 1 45 42 59 59 Other countries : see §16 - OTHER DATA

### **2- RISK IDENTIFICATION**

<b>Classification : explosive</b>
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### **3- PHYSICAL DATA**

	Components used in the manufacturing of Davey Bickford electronic detonators are: And / or            Primary explosives    2g max Secondary explosives   2g max  They are not directly in contact with users. If case of accidental contact with one of those components, please contact immediately Davey Bickford to know how to handle those products.
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### **4- FIRST AID**

<b>4-1 General instructions</b>	Not applicable
<b>4-2 Inhalation</b>	Not applicable
<b>4-3 Contact with skin</b>	Not applicable
<b>4-4 Contact with Eyes</b>	Not applicable
<b>4-5 Ingestion</b>	Not applicable
<b>4-6 Other information</b>	Components are contained in a metallic shell. Do not put into a waste bin or dump.

### **5- FIRE FIGHTING MEASURES**

<b>5-1 Extinguishing media</b>	- see § 5-5
<b>5-2 Prohibited extinguishing media</b>	- see § 5-5
<b>5-3 Hazards</b>	May detonate : no instantaneous explosion of the whole box under 1.4 risk division.
<b>5-4 Special firefighting</b>	Upon intervention, use a mask with cartridge.

<b>Equipment</b>	WARNING the risk of explosion may remain latent even after the fire has stopped, depending on the condition of products.
<b>5-5 Other information</b>	In case of fire nearby the products : use extinguishers and all available waternig means In case of fire in a warehouse or during transportation : do not fight fire but withdraw personnel immediately, up to the necessary safety distance. Evacuate the immediate perimeter of the fire and block accesses.

## **6- SPILL OR LEAK PROCEDURES**

<b>6-1 Individual precautions</b>	Isolate the area
<b>6-2 Precautions for environment protection</b>	Not applicable
<b>6-3 Collection method</b>	Never handle damaged detonators. Undamaged detonators can be repacked in packagings similar to original boxes. Never use damaged products or partially damaged products (that have been shocked or submitted to excessive temperatures, etc.)
<b>6-4 Other information</b>	In case of potentially or visibly damaged products, contact immediately Davey Bickford to obtain the necessary information to handle those detonators.

## **7- HANDLING AND STORAGE**

<b>7-1 Handling</b>	Handle with care, avoid all forms of commotion (impact and friction on products and their packagings, keep products and packagings away from heat, flames and sparks. Keep far from children. The control and implementation of pyrotechnic articles must be done by authorized staff.
<b>7-2 Storage</b>	Storage temperature : -40°C +70°C Keep away from damp. Respect all regulations on the storage of hazardous goods. Do not store with other dangerous goods not being of Class 1, nor with incompatible goods of Class 1.
<b>7-3 Special use</b>	Not applicable

## **8- SPECIAL PROTECTION INFORMATION / HEALTH HAZARD DATA**

<b>8-1 Threshold Limit Vaue</b>	Not applicable
<b>8-2 Control of exposure</b>	Not applicable
<b>8-3 Individual protection</b>	- <b>Respiratory protection</b> : Avoid breathing fulmes from detonation. - <b>Protective gloves</b> : Not applicable - <b>Eye protection</b> : Not applicable - <b>Ear protection</b> : Use ear protectors if close to the detonation.
<b>8-4 Other information</b>	-

## 9- PHYSICO-CHEMICAL PROPERTIES

<b>Appearance</b>	Not applicable
<b>Odour</b>	Not applicable
<b>pH</b>	Not applicable
<b>Boiling point</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Flammable limits</b>	Not applicable
<b>Explosive properties</b>	Not applicable
<b>Propriétés comburantes</b>	Not applicable
<b>Vapor pressure</b>	Not applicable
<b>Density</b>	Not applicable
<b>Solubility</b>	Not applicable
<b>Solubility in water</b>	Not applicable
<b>Coeff of share n-octanol/water</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>vapor density</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Other information</b>	Object made to detonate

## 10- STABILITY AND REACTIVITY

<b>10-1 Conditions to avoid</b>	Avoid any exposure to high temperature, to impact, friction and electrostatic discharges or stray currents.
<b>10-2 Materials to avoid</b>	Acids or alkalies. Dangerous goods outside Class1 and all incompatible materials of class 1.
<b>10-3 Hazardous Decomposition Products.</b>	Lead fumes and possibility of carbon monoxyde and nitrogen oxide fumes.

## 11- TOXICOLOGICAL INFORMATION

<b>Toxicinetics : metabolism and distribution</b>	Not applicable
<b>Acute effects, high toxicity, irritation, corrosive effects</b>	Not applicable
<b>Sensitization</b>	Not applicable
<b>Toxicity by repeted ingestion</b>	Not applicable
<b>CMR effects(carcinogenic, mutagenic, reprotoxicity)</b>	Not applicable
<b>Other information</b>	Object made to detonate

## 12- ECOLOGICAL INFORMATION

- Ecotoxicity	Not applicable
- Mobility	Not applicable
- Persistency et dwearing away	Not applicable
- Bioaccumulation potential	Not applicable
- Result of PBT evaluation	Not applicable
- Other nocive effects	Not applicable

## 13- FACTORS CONCERNING WASTE ELIMINATION

Appropriate methods to dispose of substances/preparation/product	Voir §6
Appropriate method to dispose of packagings	To be made on site per state and federal regulation, by authorized staff.
Other information	-

## 14- TRANSPORT INFORMATION

UN Number	0456
Exact name	detonators electric for blasting
Risk classification	1.4 S
Label	1.4
ADR (road) specificities	none
IATA (air) specificities	designation : detonators electric for blasting
IMDG (sea) specificities	néant

## 15- STATUTORY INFORMATION

	Not applicable
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## 16- OTHER DATA

Emergency response information during transportation	Contact : United States, Canada, Puerto Rico & U.S Virgin Island : <b>800-255-3924</b> - International Emergency : <b>813/248-0585</b> (collects)  For any specific requirement, please contact Davey Bickford
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### **General Information**

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 present datasheet 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.