

# Safety data sheet


In accordance with EC regulation no. 1907/2006

## *Electronic detonator Daveytronic®*

### 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

<b>1-1 Product identifier</b>	ELECTRONIC DETONATOR DAVEYTRONIC® DETONATOR DAVEYTRONIC® SP – DAVEYTRONIC® OP - DAVEYTRONIC® UG
<b>1-2 Relevant identified uses of the substance or mixture and uses advised against</b>	<b>Pyrotechnic initiation - industrial use</b>
<b>1-3 Details of the supplier of the safety data sheet</b>	DAVEY BICKFORD SAS Status: manufacturer Address: le Moulin Gaspard – 89550 Héry – France DB plant phone: +33 3 86 47 30 00 direction@daveybickford.fr
<b>1-4 Emergency telephone number</b>	Emergency number of the certified body: <ul style="list-style-type: none"> <li>- In France: ORFILA + 33 (0)1 45 42 59 59</li> <li>- For other countries according to local regulations.</li> </ul>

### 2- HAZARDS IDENTIFICATION

<b>2-1 - Classification of the substance or mixture</b>	Pyrotechnic item with over-pressure effect (shock wave) Classification in accordance with regulation (EC) 1272/2008 : without packaging electronic detonator are classified H201 (explosive : mass explosion hazard)
<b>2-2 Label elements</b>	 <p><b>Hazard pictogram</b></p> <p><b>Signal word</b> danger</p> <p><b>Hazard statement</b> H201 : explosive : mass explosion hazard</p> <p><b>Precautionary statement</b> P210 : keep away from heat / sparks / open flames / hot surfaces – no smoking P250 : do not subject to grinding / shock / friction P372 : explosion risk in case of fire P401 : store at a temperature between -40 and 70 °C P501 : dispose of contents / container according to the rules relating to the explosives</p>
<b>2-3 Other hazards</b>	Not applicable: the pyrotechnic material is not accessible in normal use

### 3- COMPOSITION / INFORMATION ON INGREDIENTS

<b>3-1 Substances</b>	Metal casing enclosing: <ul style="list-style-type: none"> <li>- Primary explosive (&lt;0.2 g)</li> <li>- secondary explosive (&lt; 0.8g)</li> <li>- And a priming cap coated with a pyrotechnic paste</li> </ul> A plastic plug is crimped on the open end of the casing used for passing the electrical wires through Pyrotechnical substance mass equivalent TNT : 1g equivalent TNT per detonator
<b>3-2 Mixtures</b>	Not applicable

## 4- FIRST AID MEASURES

<b>4-1</b>	<b>Description of first aid measures</b>	Protect yourself, notify emergency responders and take the victim to safety.
<b>4-2</b>	<b>Most important symptoms and effects, both acute and delayed</b>	Not applicable
<b>4-3</b>	<b>Indication of any immediate medical attention and special treatment needed</b>	For injuries due to splinters, provide first aid then request medical advice if necessary. For explosions nearby, check hearing. Treat symptoms in all cases.

## 5 - FIREFIGHTING MEASURES

<b>5-1</b>	<b>Extinguishing media</b>	None
<b>5-2</b>	<b>Special hazards arising from the substance or mixture</b>	<p>Set up a safety perimeter.</p> <p>Do not personally intervene to stop a pyrotechnics fire.</p> <p>Whenever possible, measures should be taken to prevent the fire from spreading.</p> <p>After the fire has been extinguished, the site where it took place may only be entered after ascertaining that the entire area has cooled completely.</p>
<b>5-3</b>	<b>Advice for firefighters</b>	When intervening, wear special fire prevention equipment (respiratory device, helmet, etc.).

## 6- ACCIDENTAL RELEASE MEASURES

<b>6-1</b>	<b>Personal precautions, protective equipment and emergency procedures</b>	<p>Pyrotechnic materials spilled accidentally must be collected by authorised personnel, so that they can be disposed of and if necessary, destroyed (see waste handling, section 13).          Avoid any impact, friction, or anything that may lead to a spark or electrostatic discharge.          Keep away from incompatible chemicals.</p> <p>If there is broken packaging around pyrotechnic items, transfer the items into a wood or cardboard container, taking care to avoid damaging them (impact, spark, heat, etc.).</p>
<b>6-2</b>	<b>Environmental precautions</b>	Not applicable
<b>6-3</b>	<b>Methods and material for containment and cleaning up</b>	Not applicable
<b>6-4</b>	<b>Reference to other sections</b>	Not applicable

## 7- HANDLING AND STORAGE

<b>7-1</b>	<b>Precautions for safe handling</b>	<p>Handle with care, avoiding impacts, friction and exposure to heat, naked lights, electromagnetic radiation (including mobile phones), electrostatic charges, etc.</p> <p>Any use not covered in the technical instructions or by untrained personnel is prohibited.</p> <p>Do not use damaged or partly damaged products (impacted by shock, high temperature...)</p> <p>No smoking.</p>
<b>7-2</b>	<b>Conditions for safe storage, including any incompatibilities</b>	<p>Storage temperature: -40 °C to +70°C</p> <p>Protect from moisture</p> <p>Storage compatibility: follow the rules of article 8 of the French ministerial decree of 20/04/2007 as amended (or local regulations outside France).</p>
<b>7-3</b>	<b>Specific end use(s)</b>	Not applicable

## 8- EXPOSURE CONTROL/PERSONAL PROTECTION

8-1	Control parameters	Not applicable
8-2	Exposure controls	<ul style="list-style-type: none"> <li>- Respiratory protection: Do not inhale the smoke after a fire has started.</li> <li>- Hand protection: wearing gloves recommended</li> <li>- Eye protection: wearing safety goggles recommended</li> <li>- Hearing protection: close to an explosion, wearing hearing protection appropriate for the distance recommended.</li> </ul>

## **9- PHYSICAL AND CHEMICAL PROPERTIES**

<b>9-1 Information on basic physical and chemical properties</b>	Not applicable
<b>9-2 Other information</b>	Not applicable

## **10- STABILITY AND REACTIVITY**

<b>10-1 Reactivity</b>	Not applicable
<b>10-2 Chemical stability</b>	Stable within the storage temperatures recommended in section 7 and within the item's usage limitations (expiration date)
<b>10-3 Possibility of hazardous reactions</b>	Not applicable
<b>10-4 Conditions to avoid</b>	Avoid any exposure to high temperatures, impacts, friction, electrostatic discharges or stray currents.
<b>10-5 Incompatible materials</b>	Acids and alkalis
<b>10-6 Hazardous decomposition products</b>	Fumes contain lead. Possible release of oxides of carbon and nitrogen.

## **11- TOXICOLOGICAL INFORMATION**

<b>11-1 Information on toxicological effects</b>	No hazards identified for the item
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## **12- ECOLOGICAL INFORMATION**

<b>12-1 Toxicity</b>	No hazards identified for the item
<b>12-2 Persistence and degradability</b>	No hazards identified for the item
<b>12-3 Bioaccumulative potential</b>	No hazards identified for the item
<b>12-4 Mobility in soil</b>	No hazards identified for the item
<b>12-5 Results of PBT vPvB assessment</b>	No hazards identified for the item
<b>12-6 Other adverse effects</b>	No hazards identified for the item

## **13- DISPOSAL CONSIDERATIONS**

<b>13-1 Waste treatment methods</b>	<p>Do not place in waste bins, drains, or landfill.</p> <p>Processing and destruction require specific procedures and must be covered in a special study that takes into account the product's condition and treatment of the waste after destruction. This operation must be carried out by trained, authorised personnel.</p> <p>All materials contaminated by pyrotechnic materials from the item should also be considered as pyrotechnic waste.</p> <p>For further information, contact a Davey Bickford manager.</p>
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## 14- TRANSPORT INFORMATION

14-1 UN number	0456
14-2 UN proper shipping name	Electric mine <b>detonators</b> (for blasting)
14-3 Transport hazard class(es)	1.4S
14-4 Packing group	Not applicable
14-5 Environmental hazards	Not applicable
14-6 Special precautions for user	
- ADR specifics (road)	None
- IATA specifics (air)	Description : <b>detonators, electric</b> for blasting
- IMDG specifics (sea)	None
14-7 Transport in bulk according to annex II of MARPOL 73/78 and the IBC Code	Not applicable

## 15- REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	<p>The primary regulations that apply are:</p> <ul style="list-style-type: none"> <li>- Decree no. 2013-973 dated on 29/10/2013</li> <li>- Regulations for transporting hazardous goods</li> <li>- The Labour Code</li> <li>- The Defence Code, particularly Part 2 – Book III – Title V</li> <li>- Decree no. 2010-455 related to the commercial availability and control of explosives for civilian use in application of directives nos. 2014/28/UE and no. 2013/29/UE.</li> <li>- The environmental code, ICPE listing (Installations Classées pour la Protection de l'Environnement), in particular headings 4220, 2793.</li> <li>- Regulation (EC) no. 1907/2006 as amended concerning the registration, evaluation, authorization, and restriction of chemicals (REACH)</li> <li>- Regulation (EC) no. 1272/2008 as amended related to the classification, labelling, and packaging of chemicals and mixtures (CLP)</li> </ul> <p>For all countries, regulations and laws covering the handling, transport, storage, usage, and destruction of explosives must be complied with, and also those governing the protection of workers, health, and the environment.</p>
15.2 Chemical safety assessment	Not applicable

## 16- OTHER INFORMATION

### General information

This sheet does not under any circumstances exempt users of the item from referring to official texts for information concerning their obligations. This sheet contains information based on the state of our knowledge of the item concerned at the time of writing. This sheet should not be considered exhaustive and refers only to normal use of the product.

**Note:** text in blue=modification.