

Safety Data Sheet

PYROTECHNICAL DETONATOR– Serie 400

1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY

1-1 Product Identifier :	PYROTECHNICAL DETONATOR– SERIE 400 DETONATOR HERICA - BRISKA
1-2 Relevant identified uses of the substance or mixture and uses advised against	Pyrotechnical initiation – Industrial use.
1-3 Details of supplier of the safety data sheet	DAVEY BICKFORD SAS Status: Manufacturer Le Moulin Gaspard 89 550 HERY FRANCE Tel : + 33 3 86 47 30 00 direction@daveybickford.fr
1-4 Emergency telephone number	24 Hour Phone (France only) : ORFILA + 33 1 45 42 59 59 Other countries : according to local regulation

2 - HAZARDS IDENTIFICATION

2-1 Classification of the substance or mixture	Pyrotechnical article with overpressure effect (detonation)
2-2 Label elements	Not applicable
2-3 Others hazards	Not applicable: the pyrotechnical material is not accessible in normal use.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

3-1 Substances	metallic case load with : <ul style="list-style-type: none">- A primary explosive < 2g- And/or a secondary explosive < 5g- And/or a delay mixture- And/or an ignition composition <p>The SDS covers a family of products, so be sure to always check the customer drawing for details about the precise compositions for your specific products.</p>
3-2 Mixtures	Not applicable

4 - FIRST AID MEASURES

4-1 Description of first aid measures	Protect yourself, alert emergency responders, and take the victim to safety.
4-2 Most important symptoms and effects, both acute and delayed	
4-3 Indication of any immediate medical attention and special treatment needed	For injuries due to shrapnel, provide first aid then request medical advice if necessary. If deflagration has occurred close by: have your hearing checked. Treat symptoms in all cases.

5 - FIREFIGHTING MEASURES

5-1 Extinguishing media	None
--------------------------------	------

5-2 Special hazards arising from the substance or mixture	<p>Immediately set up a safe perimeter Do not personally intervene to stop a pyrotechnical fire. Whenever possible, measures should be taken to prevent the fire from spreading. After the fire has been put out, the site where it took place may only be entered after complete cool down of the entire area.</p>
5-3 Advice for firefighter	<p>If taking action, wear firefighting equipment (respiratory device, helmet, etc.)</p>

6 - ACCIDENTAL RELEASE MESURES

6-1 Personal precaution, protective equipment and emergency procedures	<p>Pyrotechnical material spilled accidentally must be collected by authorized personnel in order to be disposed of and if necessary, destroyed (see waste handling section no. 13). Avoid any impacts, frictions, or anything that may lead to a spark or electrostatic discharge. Remove heat source, and do not approach an open flame Remove incompatible products and chemicals. In case of altering of a pyrotechnical article packaging, transfer these articles into a wood or cardboard container, taking care in avoiding damaging them (shaking, spark, heat, etc.).</p>
6-2 Environmental precautions	Not applicable
6-3 Methods and material for containment and cleaning up	Not applicable
6-4 Reference to other sections	Not applicable

7 - HANDLING AND STORAGE

7-1 Precautions for safe handling	<p>Handle with care avoiding shocks, impacts, friction, and exposure to heat, open flame, electromagnetic radiation (including mobile phones), and electrostatic charges, etc. In case of a potentially or visually altered pyrotechnical article, immediately contact Davey Bickford to obtain the necessary information to deal with these products. Any use not covered by the technical instructions or performed by untrained personal is prohibited. No smoking.</p>
7-2 Conditions for safe storage including any incompatibility	<p>Storage temperature: -10°C to +50°C. Keep away from moisture. 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>
7-3 Specific end use(s)	Not applicable

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

8-1 Control parameter	Not applicable
8-2 Exposure controls	<ul style="list-style-type: none"> - Respiratory protection: Do not inhale the smoke after firing. - Eye protection: Goggles recommended - Hearing protection: When a detonation is expected, wear auditive protection.

9 - PHYSICO AND CHEMICAL PROPERTIES

9-1 Information on basic physical and chemical properties	Not applicable
9-2 Other information	Not applicable

10 - STABILITY AND REACTIVITY

10-1 Reactivity	Not applicable
10-2 Chemical stability	Stable at the storage temperatures which are recommended in section 7
10-3 Possibility of hazardous reactions	No violent reaction occurs below 100°C.
10-4 Conditions to avoid	Avoid any exposure to high temperature, impacts, frictions, electrostatic discharges or stray currents.
10-5 Incompatible materials	Acides and Alkalis
10-6 Hazardous decomposition product	Fumes contain lead. Possible releases of carbon oxides and nitrogen oxides.

11 - TOXICOLOGICAL INFORMATION

11-1 Information on toxicological effects	No risks identified for the item
--	----------------------------------

12 - ECOLOGICAL INFORMATION

12-1 Toxicity	No risks identified for the item
12-2 Persistence and degradability	No risks identified for the item
12-3 Bioaccumulative potential	No risks identified for the item
12-4 Mobility in soil	No risks identified for the item
12-5 Result of PBT and vPvB assessment	No risks identified for the item
12-6 Other adverse effects	No risks identified for the item

13 - DISPOSAL CONSIDERATIONS

13-1 Waste treatment methods	Do not place in the trash bin, sewer, or landfill. Processing and destruction require specific procedures and must be covered in a special study that takes into account the product's condition and the handling of waste after destruction. This operation must be handled by trained and authorized personal. All materials contaminated by items pyrotechnical materials should also be considered pyrotechnical waste. For any additional information, please contact Davey Bickford.
-------------------------------------	---

14 - TRANSPORT INFORMATION

14-1 UN Number	0455	0267	0073
14-2 UN proper shipping name	Detonators, non electric	Detonators, non electric	Detonators for ammunition
14-3 Transport hazard class(es)	1.4S	1.4B	1.1B
14-4 Packing group	Not applicable	Not applicable	Not applicable
14-5 Environmental hazards	Not applicable	Not applicable	Not applicable
14-6 Special precautions for user			
- ADR Specificity (road)	Not applicable	Not applicable	Not applicable
- IATA Specificity (air)	Designation : Detonators, non electric	Cargo aircraft only Designation : Detonators, non electric	Forbidden
- IMDG Specificity (sea)	Not applicable	Not applicable	Not applicable

14-7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable	Not applicable	Not applicable
14-1 UN Number	0029	0377	0044
14-2 UN proper shipping name	Detonators, non electric	Primers, cap type	Primers, cap type
14-3 Transport hazard class(es)	1.1B	1.1B	1.4S
14-4 Packing group	Not applicable	Not applicable	Not applicable
14-5 Environmental hazards	Not applicable	Not applicable	Not applicable
14-6 Special precautions for user			
- ADR Specificity (road)	Not applicable	Not applicable	Not applicable
- IATA Specificity (air)	Forbidden	Forbidden	Designation : Primers, cap type
- IMDG Specificity (sea)	Not applicable	Not applicable	Not applicable
14-7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

15 - REGULATORY INFORMATION

15-1 Safety, health and environment regulations/legislation specific for the substance or mixture	<p>The primary regulations that apply are:</p> <ul style="list-style-type: none"> - Decree no. 79-846 dated 28/09/79, its implementation order and its circulars - Regulations for transporting hazardous goods - The labour code - The defence code, particularly Part 2 – Book III – Title V - Decree no. 2010-455 related to the commercial availability and inspection of civilian-use explosives in application of directives no. 93/15/EEC dated 05/04/1993 and no. 2007/23/EC dated 23/05/2007. - The environmental code, ICPE listing (Installations Classées pour la Protection de l'Environnement), in particular headings 1310, 1311, 1313 - Regulation (EC) no. 1907/2006 as amended concerning the registration, evaluation, authorization, and restriction of chemicals (REACH) - Regulation (EC) no. 1272/2008 as amended related to the classification, labelling, and packaging of chemicals and mixtures (CLP) <p>For all countries, regulations and laws related handling, transport, stockage, use and destruction of explosives must be complied, as well as laws related workers protection; health and environment.</p>
15-2 Chemical safety assessment	Not applicable

16 - OTHER INFORMATION

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.