

## 2 The explosive products

### 2.1 General

Event Horizon selected various explosives as identified on the original classification approval with reference 19EM/0394 [22]. Most of these explosives are part of the selection of samples used in the Sample Kit. Table 1 shows an overview. According to this Table the total NEQ per packaging will be 662 grams.

Table 1 Overview<sup>1</sup> of explosives, UN-number and classification for each sample.

No.	Composition	Product denomination	Manufacturer	UN number	Class	NEQ per packaging [g]
1	Black Powder	Black Powder	Wano	0027	1.1D	25 (2x)
2	Detonating Cord	Daveycord 5, 10, 20, 40, 70, Seicord 100.	EPC-UK plc	0065	1.1D	12 (2x0.5x12 g/m)
3	RDX	RDX or Hexogen	Eurenco	0072	1.1D	25
4	Blasting Type A (Ammonium nitrate/Ethylene dinitrate)	Eurodyn 2000	Orica	0081	1.1D	25 (2x)
5	Blasting Type D	RDX, plastic PE4	Eurenco	0084	1.1D	25
6	Blasting Type D	Semtex 1A	Explosia	0084	1.1D	25
7	Hexolite	NSK14, NSK16, NSK50, NSK90, NSK151, NSK152, NSK901, NSK904	Eurenco Bofors AB	0118	1.1D	25 (2x)
8	PETN	ND/NK	Explosia	0150	1.1D	25 (2x)
9	Smokeless Powder	N-Powder	Vihla/Vuori	0161	1.3C	25 (2x)
10	TNT	I-Flake		0209	1.1D	25 (2x)
11	HMX	HMX, Neat	Eurenco	0226	1.1D	25
12	Blasting type E (Ammonium nitrate/Sodium Nitrate, Petroleum, Thiourea)	Senatel Powerfrag	Orica	0241	1.1D	25 (2x)
13	Octolite	EDC 1	Land Systems Bridgewater	0266	1.1D	25 (2x)
14	Hexanitrostilbene (HNS)	6007	Eurenco	0392	1.1D	25 (2x)
15	RDX	56337S1	Eurenco	0483	1.1D	25
16	HMX	Octogen, HMX crystalline	Eurenco Bofors AB	0484	1.1D	25
17	Ammonium-Nitrate: Aluminum <sup>2</sup>	27% N-FI net nitrate/63µm Defstan Type B	Kemira/Defstan	0475	1.1D	25 (2x)

1) The information in this table is obtained by the datasheets [3-21] provided by the company Event Horizon, UK.

2) The AN:AL is manufactured for the military and it is currently classified by UK MOD. The military classification and specification are mentioned in the References.

## 7 Dangerous goods classification

Based on the results of the classification tests, the competent authority of the Netherlands (TNO) determined the hazard classification of Sample Kit as follows:

- **Proper Shipping Name** : **ARTICLES, EXPLOSIVE, N.O.S.**
- **UN-code** : **0463**
- **Hazard classification** : **1.1D**
- **Packaging marking** : **4A1/Y19/S/\*\*/GB/0355 or 4A/Y19/S/\*\*/GB/1681**
- **Packaging instruction** : **P101**
- **Packaging method** : **See Appendix**

According to the international transport regulations (ADR/RID, IMDG, ICAO), when the Sample Kit is transported, the transport document shall bear the above-mentioned dangerous goods classification and packaging marking.