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## ATEX certification for moving around in hazardous areas (except DUO S)

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From the Petzl 2018 Professional Products Guide.

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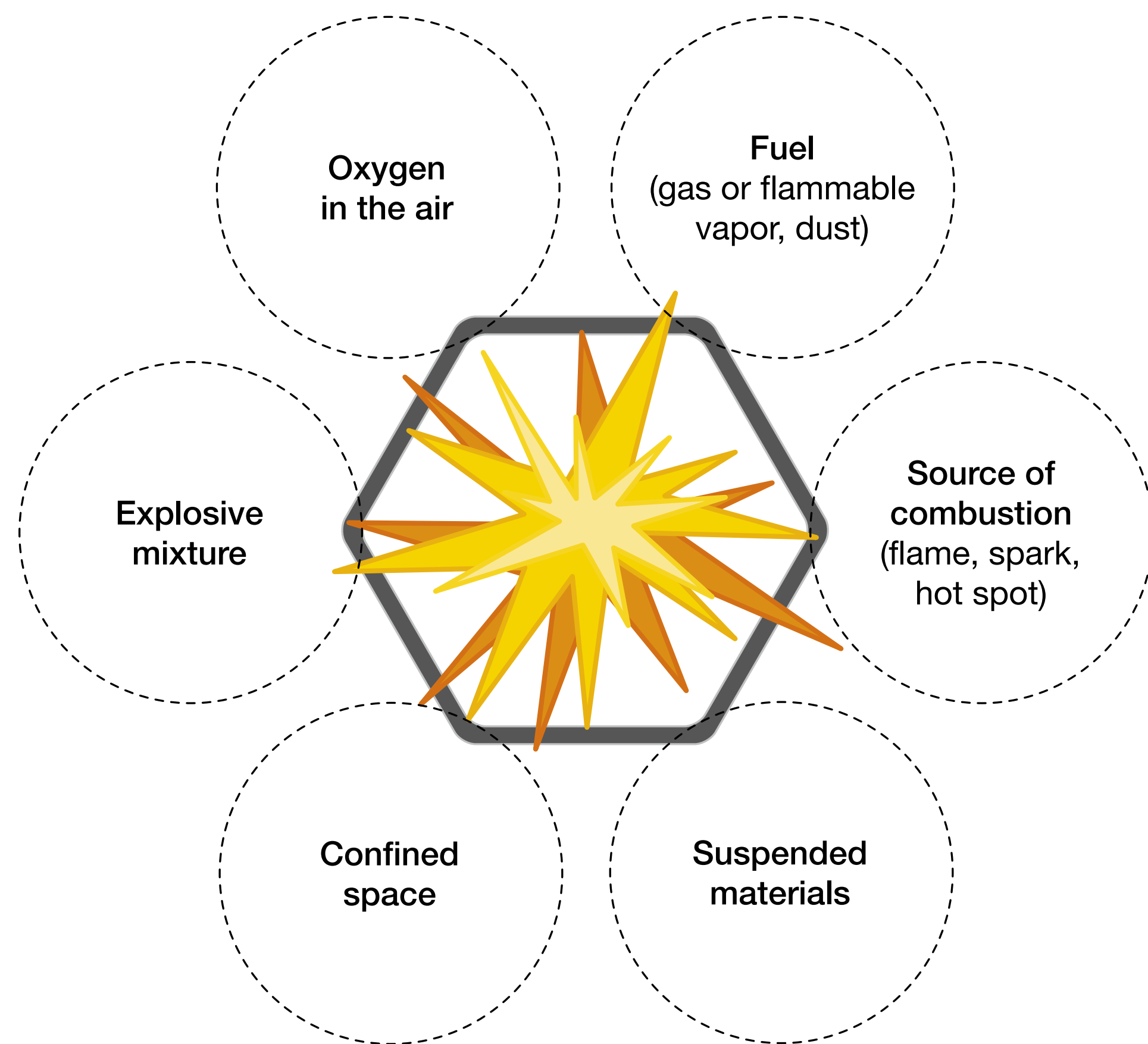


Designed to withstand the harshest environments,  
DUO Z1 and DUO Z2 headlamps can be used in hazardous areas.  
Depending on the model, they are certified ATEX zone 1/21 or zone 2/22.

## What is a hazardous area?



ATEX



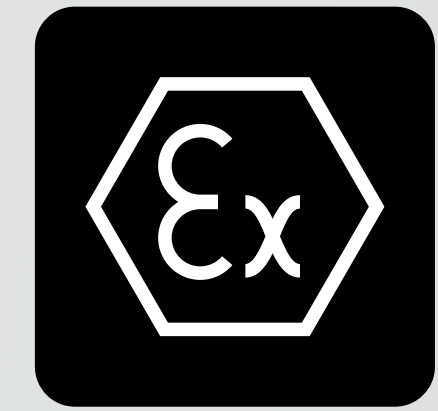
There is a risk of explosion when six conditions are simultaneously met:

- presence of an oxidant: the oxygen in air, for example
- presence of a combustible: gas, vapor, dust or powder
- suspended materials (gas, dust, aerosol...), propagation factors
- confined space: for example a vehicle, work space...
- an explosive mixture, which means having attained a concentration of the combustible in the air sufficient to make an explosion possible
- presence of an ignition source

If an explosion hazard is identified in an environment, the hazardous locations are classified as areas at risk.

All of the materials used in these zones must conform with current regulations for this type of zone (ATEX and/or HAZLOC).

## Classification of ATEX / HAZLOC locations



ATEX

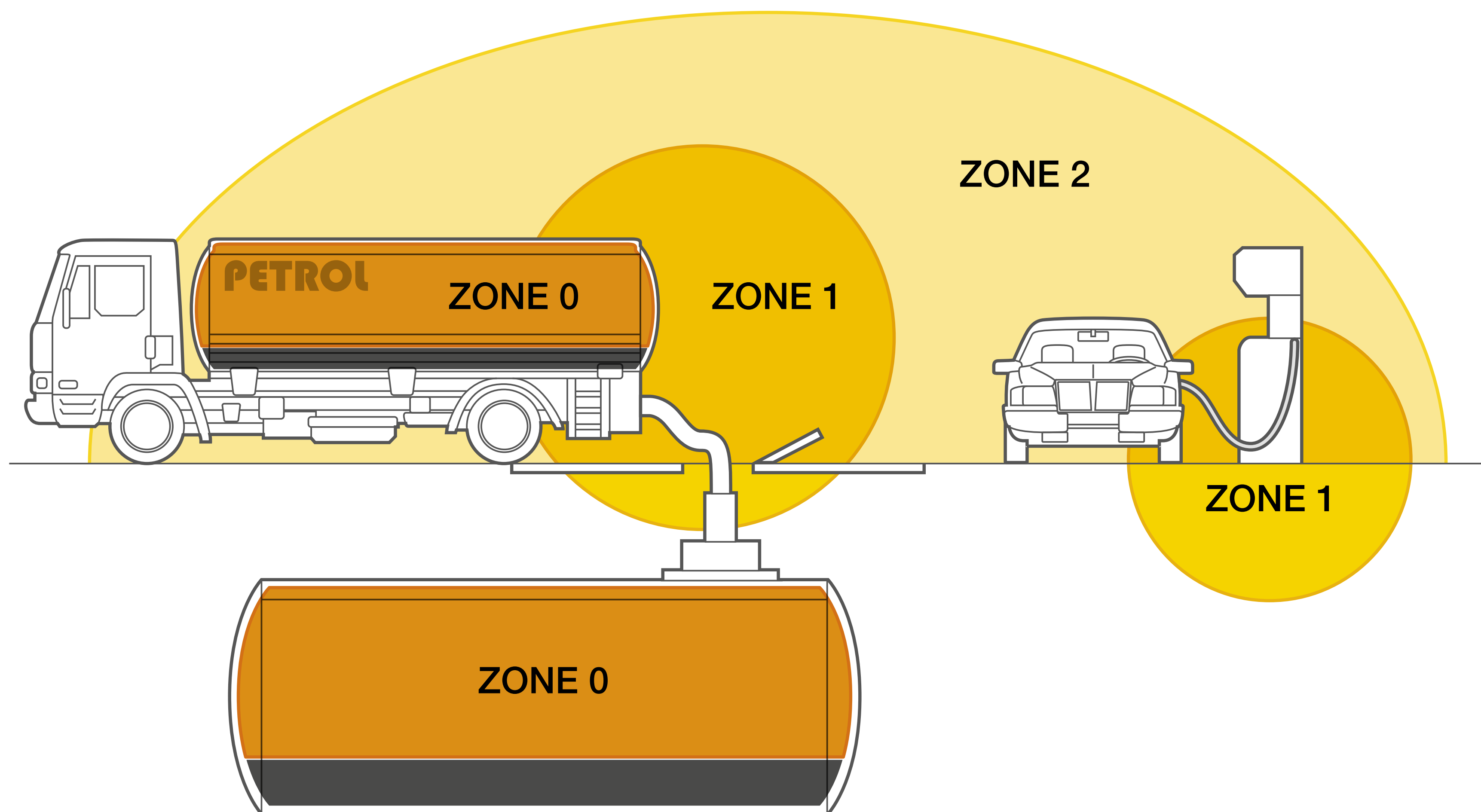
Hazardous environments	Gas type combustible		Dust type combustible	
	ATEX	HAZLOC	ATEX	HAZLOC
Permanent or long-term	ZONE 0	Class I Div 1	ZONE 20	Class II Div 1
Occasional	ZONE 1	Class I Div 1	ZONE 21	Class II Div 1
Accidental	ZONE 2	Class I Div 2	ZONE 22	Class II Div 2

## Classification of ATEX / HAZLOC locations



ATEX

Example of ATEX location (gas type combustible)



# Performance headlamps

## Choosing your Petzl headlamp for hazardous areas



ATEX

		DUO Z1	DUO Z2	PIXA® 3R	PIXA® 3		PIXA® 2		PIXA® 1	
		 NEW 2018	 NEW 2018							
		E80BHR	E80AHB	E78CHR 2	E78CHB 2	E78CHB 2UL	E78BHB 2	E78BHB 2UL	E78AHB 2	E78AHB 2UL
Regulation	ATEX	•	-	-	-	-	-	-	-	-
	ATEX	-	•	•	•	-	•	-	•	-
	HAZLOC	-	-	-	-	•	-	•	-	•
Energy source	BATTERIES INCLUDED	-	•	-	•	•	•	•	•	•
	RECHARGEABLE	•	-	•	-	-	-	-	-	-