



ITW Construction Products

Safety Data Sheet

According to EEC Regulation 91/155/EEC

1.0	Identification of the substance / preparation and the company / undertaking
1.1	Product Name Fastening Cartridges
1.2	Supplier ITW Construction Products Fleming Way Crawley West Sussex RH10 9DP England
1.3	Emergency Telephone Number 44 (0) 1293 523372
2.0	Composition / information on ingredients
2.1	Hazardous substances present on their own (present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state) This preparation contains no hazardous substance in this category.
2.2	Other substances representing a hazard No known substance in this category present.
2.3	Other substances with occupational exposure limits No known substance in this category present.
2.4	Other components Cartridges power device are cartridges for powder actuated fastening tools, which are determined, to cause mechanical effects. They consist of a metal case with rimfire initiation and a charge of deflagrating explosive (propellant powder). No mass explosion risk. Within the cartridges the explosive ingredients (gun powder and priming composition) are hermetically separated from the environment. They will be only opened with effort and under destruction of the article. When packed the articles don't represent a significant risk, safety cartridges. In conformity with the regulations for the usage, no health hazards arise.
3.0	Hazards identification
	This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site. This preparation is not classed as hazardous to health by directive 1999/45/EC.
	Other data In case of free ignition of cartridges the trajectory and maximum range of the projectile are unknown. Risk of a prompt explosion in case of break open the receptacle. Avoid by all means risk of detonation such as friction or impact in case of coming out of the dangerous ingredients. Released explosives may irritate eyes, respiratory organs and skin.
4.0	First aid measures
	As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person.
4.1	In the event of exposure by inhalation If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.
4.2	In the event of splashes or contact with eyes Wash thoroughly with soft, clean water for 15 minutes, holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.
4.3	In the event of splashes or contact with skin Wash the skin thoroughly with soap and water or a recognised cleaner. Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
4.4	In the event of swallowing Keep still. DO NOT induce vomiting. Call a doctor and show him the label.
5.0	Fire-fighting measures
	If fire involves cargo, fight fire with all available means but only from protected position. A mass explosion is not to be expected.
5.1	Suitable extinguishing media In case of fire in the surrounding, prevent fire from reaching the cartridges. In the event of fire, use dry chemical, carbon dioxide and water.

5.2	Special protective equipment for fire-fighters Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.
5.3	Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases After the ignition of the cartridge, the explosion will take place very quickly. The combustion will release carbon monoxide as well as a small amount of lead, which is coming from primer composition.
6.0	Accidental release measures
6.1	Personal precautions Propellant not contained in a cartridge (unloaded propellant) is very toxic to your health if swallowed, easily flammable and not explosive without confinement. Especially explosion risk is the primer composition by impact, friction, fire or other ignition sources.
6.2	Environmental precautions Prevent any material from entering drains or waterways. Pick up possibly scattered cartridges only by hand, do not use any tools, forward to authorized disposal personnel.
6.3	Methods for cleaning up Exposed explosives have to be carefully wiped up and to be desensitized in a special marked container filled with water. The place in question has to be cleaned wet.
7.0	Handling and storage
	The regulations relating to storage premises apply to workshops where the product is handled.
7.1	Handling Keep away from heat and open fire. Do not throw the cartridges and open them with force, neither mechanically nor thermally, caution risk of ignition in case of impact. Use only for this matter conceded cartridges for power actuated tools. Handling of cartridges should not be allowed to qualified persons.
7.2	Fire prevention Prevent access by unauthorised personnel.
7.3	Storage Keep only in the original container at a temperature not exceeding 20°C.
8.0	Exposure controls / personal protection
	Use personal protection equipment as per Directive 89/686/EEC.
	Technical measures Personnel shall wear regularly laundered overalls.
9.0	Physical and chemical properties
Physical state	Solid in blocks
-	Metal case
pH of the substance or preparation	Not relevant
	The pH is impossible to measure or its value is not relevant
Boiling point / boiling range	Not relevant
Flash point interval	Not relevant
Vapour pressure	Not relevant
Density	> 1
Water solubility	Insoluble
Melting point / melting range	Not relevant
Self-ignition temperature	Not relevant
Decomposition point / decomposition range	Not relevant
10.0	Stability and reactivity
	The preparation is stable at the handling and storage conditions recommended per § 7 of the Safety Data Sheet. Function in admitted devices in temperature range from -30°C to 50°C.
10.1	Conditions to avoid Heat (at a temperature >110°C) or impact of the primer leads to the individual ignition of cartridges. The effects are confined within the packages. Thermal decomposition from 165°C; formation of carbon monoxide and very small amounts of nitrogen oxides.

10.2 Materials to avoid
Contact with acids, lyes, oil and aromatic hydrocarbons.

11.0 Toxicological information

The preparation contains no substance classed as hazardous per directive 67/548/EEC.

12.0 Ecological information

No ecological data on the product itself is available.

Other adverse effects

Germany: WGK 2 (VwVwS vom 17/05/99, kBws).

13.0 Disposal considerations

Do not pour into drains or waterways.

13.1 Waste

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

13.2 Soiled packaging

Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

13.3 Codes of waste (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste)

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14.0 Transport information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2005 - IMDG 2004 - ICAO/IATA 2005)

UN0323 = Cartridges, Power Device

ADR/RID	Class	Code	Pack gr.	Label	Identif	LQ	Provis
	1	1.4S	-	1.4	-	LQ0	-

IMDG	Class	2° Label	Pack gr.	LQ	EMS	Provis
	1.4S	-	-	-	F-B,S-X	-

IATA	Class	2° Label	Pack gr.	Passager	Passager	Cargo	Cargo	Note
	1.4S	-	-	134	25kg	134	100kg	-
	1.4S	-	-	-	-	-	-	-

15.0 Regulatory information

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations.
In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.
This preparation is not classed as hazardous to health by directive 1999/45/EC.
This product is not classed as flammable.

Particular provisions

Germany: WGK 2 (VwVwS vom 17/05/99, kBws).

16.0 Other information

Since the user's working conditions are not known by us, the information supplied on this Safety Data Sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this Safety Data Sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

Further advice and assistance may be obtained from our Technical Help Line on freephone 0800 731 4924.

The cartridges are authorized by St-Etienne's Official Test Facility, in accordance with current regulations making requiring and released in accordance with C.I.P-regulations.

The application and handling with cartridges subject to the current regulations of the law of state.

