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## Biztonsági adatlap

## C15 Energy Cell

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### 1 - ANYAG ÉS VÁLLALAT AZONOSÍTÁSA

Anyag beazonosítása:

Név: Gázpalack  
Termékkód: C15  
Vállalat azonosítása:  
Bejegyzett cégnév:  
Cím:  
Telefonszám:  
E-mail :  
Sürgősségi telefonszám:  
Vállalat/egyesület: Swedish Match  
Sürgősségi telefonszám: (+)31-653545373  
Anyag használata: C15 , kis méretű gáztároló, melyet gázpalackként, energiacellaként használjunk.

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### 2 - VESZÉLYEK MEGHATÁROZÁSA

A gázpalack cseppfolyós petróleum gázokat tartalmaz. A palack magától robbanhat, amennyiben magas hőnek, például nyílt lángnak tesszük ki.

**Az energiacella, mint olyan, nem jelent veszélyt az egészségre.**

Robbanásveszély, amennyiben az energiacellát előre nem látott és abnormális sokkhatás, vagy szikra éri.

**A gáz, amennyiben kiszökik a tartályból, de nem gyullad meg (a C15 helytelen használata esetén), az alábbi veszélyeket jelenti:**

EU-besorolás: Fokozottan tűzveszélyes

Emberi egészségre gyakorolt kedvezőtlen hatások:

Magas gőzkoncentráció esetén hányinger, fejfájás, szédülés léphet fel, ami szélsőséges esetben eszméletvesztést, oxigénhiányos közegben halált okozhat. A gőz hosszútávon károsíthatja az idegrendszert. A cseppfolyós petróleummal való érintkezés égést okozhat.

Biztonsági veszély: Felhasználás során robbanóképes /gyúlékony gőz-levegő. keverék képződhet. A levegőnél nehezebb gőzök szétterjedhetnek a talaj felszínén, és távoli gyújtóforrástól belobbanhatnak.

Környezeti veszély: Normál körülmények között veszélytelen. A cseppfolyós petróleum gázok fokozottan illékonyak, a tárolóból kiszökve könnyen reagál a hidroxid-gyökökkel és az ózonnal.

Készítmény besorolása:



H220: Fokozottan tűzveszélyes



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## 6 - ACCIDENTAL RELEASE MEASURES

### Personal precautions:

Gas cartridges should only be used for the purpose and as refill for the appliance as mentioned on the consumer packing. Follow the written instructions.

Consult the safety measures listed under headings 7 and 8.

### Environmental precautions:

LPG will evaporate as soon as it is released from the cartridge

Dispose of waste recovered in accordance with applicable regulations (see heading 13).

Methods for cleaning up: n.a.

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## 7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled. Ask local government for regulations for storage of dangerous goods.

### Handling:

Do not puncture or put in fire.

Do not expose the Gas Cartridge to heat or high temperature (> 50°C, 122°F) .

Avoid direct contact with acid and solvents.

Do not put the Gas Cartridge in full sunlight.

### Fire prevention:

Avoid the storage of Gas Cartridges close to highly flammable materials.

No smoking and open fire during handling and storage.

### Recommended equipment and procedures:

For personal safety, see §8.

Be sure the Gas Cartridge is detached from any portable appliance when not in use.

### Prohibited equipment and procedures:

Do not store the Gas Cartridge at high temperature or close to a heat source

### Storage:

Gas cartridges should be stored in the original packing.

It is suitable to store the Gas Cartridge between -10 and + 50 in dry and well ventilated places.

Do not store the Gas Cartridge in full sunlight.

### Specific use(s):

Containers for Gas Cartridges shall be well ventilated.

Cartons of Gas Cartridges are conform to UN 2037.

Carton labeling (CLP regulation 487/2013/EU):

Butane Cartridge



DANGER

**Hazard statement**

Extremely flammable gas

**Precautionary statements**

Keep out of reach of children

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid breathing gas

Do not handle until all safety precautions have been read and understood

Store in a well-ventilated place.

Distributor:

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## 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

No specific personal protective equipment.

Gas cartridges should only be used for the purpose and as refill for the appliance as mentioned on the consumer packing.

Follow the written instructions.

Protection from bursting Gas Cartridges is required if they are subjected to high temperature or open flame.

For further information, see § 11 of S.D.S. - Toxicological information.

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## 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information for the LPG inside the Cartridge:

<i>PHYSICAL STATE:</i>	Liquefied Petroleum Gases under pressure
<i>COLOR AND ODOR:</i>	Colorless with faint disagreeable odor.
<i>CHANGE IN PHYSICAL STATE:</i>	Boiling point at 1 atm: -1°C.
<i>FLASH POINT:</i>	- 40 °C
<i>AUTOIGNITION TEMPERATURE:</i>	Minimum temperature at 1 atm: 410°C.
<i>FLAMMABLE LIMITS IN THE AIR:</i>	Lower limit at 20°C, 1 atm: 1.44 Vol%.
<i>EXPLOSION PROPERTIES:</i>	Upper limit at 20°C, 1 atm: 8.5 Vol%.
<i>VAPOUR PRESSURE:</i>	circa 345 kPa at 20 °C
<i>VAPOUR DENSITY (air=1 ):</i>	circa 2 at 15 °C
<i>DENSITY(liquid phase):</i>	563 kg.m-3.
<i>SOLUBILITY:</i>	insoluble in water

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## 10 - STABILITY AND REACTIVITY

The liquid gas kept inside the Gas Cartridge is stable at the handling and storage conditions recommended per § 7 of this Safety Data Sheet,

Materials to avoid:

Instabilities mainly characterized by burst may occur when the Energy cell is exposed to excessive heat.

Hazardous decomposition products: CO<sub>2</sub>, CO or open flame.

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## 11 - TOXICOLOGICAL INFORMATION

No acute toxicity nor local effect. Used Specification of LPG: Butadien < 0,1%

Touchable parts tested by BureauVeritas (report 25413-024-129377) on Lead, Cadmium, PAH and Phthalates content. All not found or far below limits of REACH regulations.

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## 12 - ECOLOGICAL INFORMATION

The by-products from degradation of Gas Cartridges are CO<sub>2</sub> and H<sub>2</sub>O.

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## 13 - DISPOSAL CONSIDERATIONS

Damaged Gas Cartridges are to be returned to distributor or manufacturer.

Empty Gas Cartridges may be disposed at suitable landfill or conformed to the local legislation.

Do not incinerate or puncture.

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14 - TRANSPORT INFORMATION

**UN Number: 2037**

**Proper name: Gas cartridge, small, with flammable gas**

Class: 2, 5F

Transport code: 2(D)



INTERNATIONAL REGULATIONS: **LAND:** RID, RTMD, DoT 49 CFR, ADR  
**AIR:** IATA-DGR, Icao-it.  
**SEA:** OMI, IMDG.

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15 - REGULATORY INFORMATION

**Signal word: DANGER**

**Hazard Statements**

H220 Extremely flammable gas

**Precautionary statements**

P102 Keep out of reach of children

P202 Do not handle until all safety precautions have been read and understood

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P251 Pressurized container – Do not pierce or burn, even after use

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P308+313 IF exposed or concerned: Get medical advice/attention

P371+380+375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

P403 Store in a well ventilated place

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

**Other information:** C15 gas cartridge contains liquid petroleum gases. As such it's currently exempt from the health labelling provisions of European Commission Directive 67/548/EEC.

**Particular provisions:**

Extremely Flammable

Content under pressure

Do not puncture or put in a fire.

Keep away from extreme heat

Never expose to heat above 50°C or to prolonged sunlight.

Be sure the Gas Cartridge is detached from any portable appliance when not in use.

Keep away from small children.

Misuse may cause serious injury.

## 16 - 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

Each individual Gas Cartridges is tested in compliance to Swedish Match SP 104.

It should be pointed out that the product is not a chemical product as per definition § 3-11 of ISO 11014-1, but only one part of it, is a chemical product.

The Gas Cartridge is designed to bring a safe use of the dangerous chemical product, after careful reading of the safety notice.

However, this Safety Data Sheet has been written as if Gas Cartridges were chemical products. Section 9 does not apply to the Gas Cartridge but to the chemical product confined hermetically in a reservoir equipped with a controlled evaporation system.

The purpose of this Safety Data Sheet is to help the receiver with the use of this product.

This list of information is not exhaustive and do not keep the receiver from making sure that other relevant obligations might specifically be attributed to his concern.

For Europe, within the REACH regulation, the Gas Cartridge is seen as an article containing LPG. LPG, being a liquefied mixture of natural gases, is exempted for REACH as long as the Gas Cartridge is used in the intended manor: Gas should only be released from the Cartridge when placed with unique fitting in an Appliance designed to open it.