


SAFETY DATA SHEET FOR CIGARETTE LIGHTERS WITH HYDROCARBON GAS  
(Based on ISO 11014-1)

	PRODUCT NAME :	CRICKET LIGHTERS	PAGE 1/4
	LATEST REVISION DATE:	November 2007	

<b>SECTION 1:</b>	<b>PRODUCT AND COMPANY IDENTIFICATION :</b>
<i>PRODUCT NAME:</i>	Cricket Original®, Maxi®, Electronic®, Mini®, Pocket®, FirePower® non CR as well as CR types
<i>NAME OF THE SUPPLIER:</i>	Swedish Match Lighters BV
<i>ADDRESS OF THE SUPPLIER:</i>	Pobox 82, 9400AB Assen, The Netherlands
<i>TELEPHONE NUMBER:</i>	0031 592-376888

<b>SECTION 2:</b>	<b>COMPOSITION / INFORMATION ON INGREDIENTS :</b>
Disposable Cigarette Lighters and Utility Lighters contain a preparation of liquefied Hydrocarbon. This preparation has approximately 80% of Butane, 15% Propane, 2% Pentane, balance Hexane / Heptane and the TVL for the mixture is 100-800 ppm.	

<b>SECTION 3:</b>	<b>HAZARD IDENTIFICATION :</b>
The lighters may burst individually when exposed to high temperatures such as open flame (Cf. ISO 9994:2005 § 4.5). The gas causes drowsiness and is an asphyxiant when exposed to in large quantities; however, lighters are not a health hazard. Lighters do not present a health hazard. Risk of explosion of individual lighter when submitted to unforeseeable abnormal shock, unforeseeable abnormal friction.	

<b>SECTION 4:</b>	<b>FIRST-AID MEASURES</b>
In case of hazardous burning on a person, put out the fire and throw water on the burning parts. Do not use fats on the burning parts. Do not remove the clothes in the burning region.	

<b>SECTION 5:</b>	<b>FIRE-FIGHTING MEASURES :</b>
<i>EXTINGUISHING MEDIA:</i>	Carbon dioxide dry chemical or water spray.
<i>SPECIFIC HAZARD:</i>	Protection from bursting lighters is required if lighters are subjected to high temperature or open flames (Cf. ISO 9994:2005 § 4.5).

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

*PERSONAL PRECAUTIONS:* None.

*ENVIRONMENTAL PRECAUTIONS:* Do not use the lighters in flammable environment.

*METHODS FOR CLEANING UP:* There is no recovery of the gas in case of accidental release. The gas in small quantity evaporates directly in the air.

**SECTION 7: HANDLING AND STORAGE**

*HANDLING:* Ignite lighter away from face and clothing.  
Be sure the flame is completely out after each use.  
Do not puncture or put in fire.  
Do not keep lit for more than 30 seconds.  
Do not expose the lighter to heat or high temperature (Cf. ISO 9994 § 4.5).  
Avoid direct contact with acid and solvents.

*STORAGE:* Do not store the lighter at high temperature or close to a heat source (Cf. ISO 9994 § 4.5).  
Be sure the lighter is completely out before any storage.  
It is suitable to store the lighter not above 50°C in dry and well ventilated places.  
Avoid the storage of lighters close to highly flammable materials.  
Containers for lighters shall be well ventilated.  
Cartons of lighters are conform to UN 1057.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

No specific personal protective equipment.  
Protection from bursting lighters is required if lighters are subjected to high temperature or open flame (Cf. ISO 9994:2005 § 4.5).

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

*PHYSICAL STATE:* Liquid.

*COLOR AND ODOR:* Colorless with faint disagreeable odor.

*pH VALUE:* Not relevant.

*CHANGE IN PHYSICAL STATE:* Boiling point at 1 atm: 20°C.

*FLASH POINT:* -70°C.

*AUTOIGNITION TEMPERATURE:* Minimum temperature at 1 atm: 420°C.

*FLAMMABLE LIMITS IN THE AIR:* Lower limit at 20°C, 1 atm: 1.8%.  
Upper limit at 20°C, 1 atm: 8.8%.

*EXPLOSION PROPERTIES:* Maximum content of O<sub>2</sub> (1 atm): 12% vol.

*VAPOUR PRESSURE:* at 15°C: 2.5 bar.

*VAPOUR DENSITY:* 1 atmosphere at 15°C: 6.8 kg.m<sup>-3</sup>.

*DENSITY:* 563 kg.m<sup>-3</sup>.

*SOLUBILITY:* bunsen coefficient at 20°C: 0.03.

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**SECTION 10: STABILITY AND REACTIVITY**

The gas kept inside the lighter is stable.  
Instabilities mainly characterized by burst may occur when the lighter is exposed to excessive heat  
(Cf. ISO 9994:2005 § 4.5).

HAZARDOUS DECOMPOSITION PRODUCTS: CO<sub>2</sub>, CO or open flame.

**SECTION 11: TOXICOLOGICAL INFORMATION**

No acute toxicity nor local effect.

**SECTION 12: ECOLOGICAL INFORMATION**

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

**SECTION 13: DISPOSABLE CONSIDERATIONS**

Damaged lighters are to be returned to distributor or manufacturer.  
Empty lighters may be disposed at suitable landfill or should conform to the local legislation.  
Do not incinerate or puncture.

**SECTION 14: TRANSPORT INFORMATION**

INTERNATIONAL REGULATIONS: LAND: RID, RTMD, DoT 49 CFR, ADR.  
AIR: IATA-DGR, OACI-IT.  
SEA: OMI, IMDG.

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**SECTION 15:**

**REGULATORY INFORMATION**

Keep away from children.

Misuse may cause serious injury.

Follow instructions: Ignite the lighter away from face and clothing.

Be sure the flame is out after use.

Contain flammable gas under pressure.

Never expose to heat above 120°F (49°C) or to prolonged sunlight.

Never puncture or put in a fire.

Do not keep it lit for more than 30 seconds.

**SECTION 16:**

**OTHER INFORMATIONS**

\* Each individual lighter is conform to ISO-9994:2005 in case of CR + NEN-EN 13869.

\* This Safety Data Sheet gives informations concerning our product (i.e lighter). 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 lighter is designed to bring a safety use of the dangerous chemical product, after carefull reading of the safety notice.

However, this Safety Data Sheet has been written as if lighters were chemical products. Section 9 do not apply to the lighter but to the chemical product confined hermetically in a reservoir equipped with a controled evaporation system.

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

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

\* Packing of the product conform NEN-EN 13427 and tested UN1057