

SCHAWBEL CORP. MATERIAL SAFETY DATA SHEET
C-15 CARTRIDGE

The Schawbel Corp., 100 Crosby Drive, Bedford, MA 01730 781-541-6900

Section I

Manufacturers Name: Swedish Match

Chemical Name and Synonyms: cartridges contain a mixture of Isobutane, Propane, Normal butane, Pentane, Hexane and Heptane

Trade Name: Gas Cartridges (disposable)

Chemical Family:

Formula: Liquid Hydrocarbons

Section II - Hazardous Ingredients

<u>Paints, Preservatives and Solvents</u>	<u>%</u>	<u>TLV (Units)</u>	<u>Alloys and Metallic Coatings</u>	<u>%</u>	<u>TLV (Units)</u>
Pigments	0		Base Metal	0	
Catalyst	0		Alloys	0	
Vehicle	0		Metallic Coatings	0	
Solvents	0		Other	0	
Additives	0				
Other	0				

<u>Hazardous Mixtures of Other Liquids, Solids or Gases:</u>	<u>%</u>	<u>TLV (Units)</u>
Disposable gas cartridges contain:		
Isobutane	50	
Propane	15	
Normal butane	34	
Pentane	0.5	
Hexane / Heptane	balance	
Mixture		800(PPM)

Section III - Physical Data

Boiling Point (°F) at 1 Atmosphere:	10.9	Specific Gravity (H ₂ O=1)	0.55 (liquid)
Vapor Pressure (PSIA) Absolute at 70°F	45	Percent Volatile by Volume (%)	100%
Vapor Density (Air=1) 1 Atmosphere 70°F	2.06	Evaporation Rate	NA (Depends on Surface Exchange Area)

Section IV - Fire and Explosion Hazard Data

<u>Flash Point (Method Used)</u>	<u>Flammable Limits</u>	<u>LEL</u>	<u>UEL</u>
N/A for Gas	In Air	1.8%	8.4%
<u>Extinguishing Media:</u>	Carbon Dioxide, Dry Chemical, or Water Spray		
<u>Special Fire Fighting Procedures:</u>	Protection from exploding cartridges is required if cartridges are subjected to high temperatures or open flames.		

Section V - Health Hazard Data

<u>Threshold Limit Value:</u>	800 PPM for the gas. None for the cartridges
<u>Effects of Overexposure:</u>	The gas causes drowsiness and is an asphyxiant when exposed to in large quantities, however, cartridges are not a health hazard.
<u>Emergency First Aid Procedures:</u>	Cartridges do not present a health hazard.

