

## محصولی نوین برای تست دتکتورهای دودی



**SmokeSabre** تمام اشکالات اسپری های تست دتکتور دودی موجود در بازار را حل کرده است!

**شرکت آروین بناپاد**

شعبه نماینده انحصاری محصولات DetectorTesters  
انگلستان

[www.ARVINBANAPAD.com](http://www.ARVINBANAPAD.com)

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**NEW**

## Flick'n Test

### امتیازات منحصر بفرد

#### More than canned Smoke!

- تعداد تست بیشتر و دقیق تر در ازای هر قوطی
- سرعت بالاتر در فعالسازی و پاکسازی دتکتور
- کمترین هزینه برای هر تست
- تعبیه قیمت Saber جهت عدم ایجاد رسوبات داخل محفظه دتکتور
- تست بدون سیلیکون
- سازگار با محیط زیست و بدون تولید گازهای گلخانه ای CFC
- دارای استانداردهای UL و ULC و مورد تایید کلیه تولید کنندگان معتبر دتکتور
- حجم 150 mm

**SmokeSabre** از تمام کدها و استانداردهای معتبر بین المللی پیروی می کند.



بر اساس استاندارد (D) Bs5839 1:2002;45.4 دتکتورهای دود نقطه ای باید بصورتی تست شوند که دود وارد محفظه دتکتور شده تا آژیر آن صدا درآورد ( با استفاده از اسپری هایی که دودهای شبیه سازی شده را در اطراف دتکتور تولید میکنند). باید اطمینان حاصل شود که مواد استفاده شده برای تست دتکتور، خسارتی به خود دستگاه و مهمتر از به کارآیی آن وارد نمی کند. بر اساس استاندارد NFPA 72 Chapter 10 (10.4.2.2 3g) دتکتورها باید در مکانی تست شوند که مطمئن باشیم دود حتما وارد محفظه آن شده و دتکتور را فعال و آلام آنرا به صدا در می آورد.

## SmokeSabre چگونه کار میکند؟

این تستر قدم بزرگی در طراحی اسپری های تست دتکتور میباشد. تمام اسپری های موجود در بازار رسوبات مضر روی قسمت بیرونی یا درونی محفظه دتکتور بجا میگذارند که باعث تغییر رنگ محفظه پلاستیکی دتکتور میشوند همچنین موجب جذب گرد و غبار شده تاثیر بدیبر روی حساسیت سنسورهای دتکتور در تشخیص دود شده در برخی موارد باعث پوسیدگی یا حتی بطور کلی خرابی دتکتور میشود. رسوبات زمانیکه در فاصله بسیار نزدیک به دتکتور استفاده شود باعث تشکیل رسوب میشود. درحالیکه طبق دستورالعمل باین گونه نباید مورد استفاده قرار گیرد.

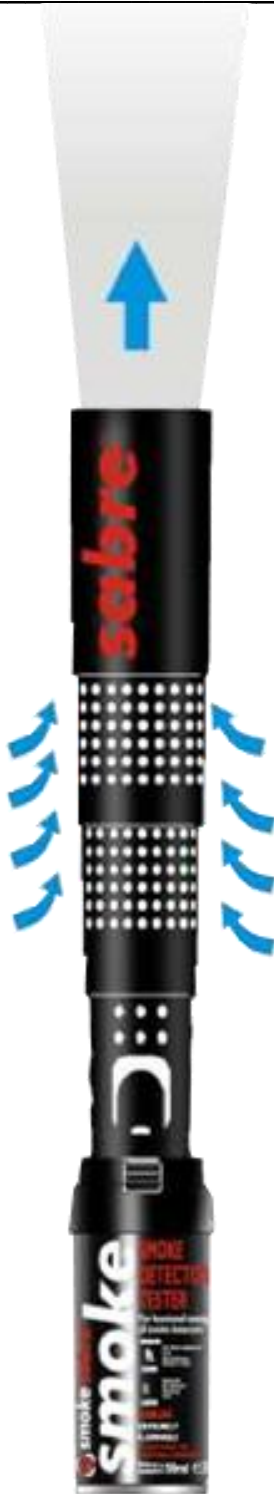
SmokeSabre با طراحی منحصر بفرد خود ضمن عدم بروز رسوب، دود شبیه سازی کافی را به محفظه دتکتور میرساند.

اسپری های موجود در بازار را میبایست با وسایل جانبی دیگری مورد استفاده قرار داد در حالیکه این تستر به هیچ وسیله جانبی دیگری نیاز ندارد و این امر موجب برتری آن نسبت به سایر برندها گردیده است.

SmokeSabre یک محصول نوین و جهانی است که قابلیت تست انواع دتکتورهای دودی موجود در بازار را دارد.

قسمت Sabre ساخته شده آن از نوعی پلاستیک است که بعد از دور انداختن بصورت ۱۰۰٪ تجزیه و جذب طبیعت میگردد. این محصول تنها اسپری دود موجود در بازار است که قابلیت بازیافت داشته و بصورت کامل با محیط زیست سازگار است.

این محصول جزء لیست های برتر ULC و UL میباشد و بر اساس استانداردهای بین المللی طراحی و تولید میگردد و مورد تایید بزرگترین تولید کنندگان دتکتور در جهان میباشد.



## شرکت آروین بناپاد

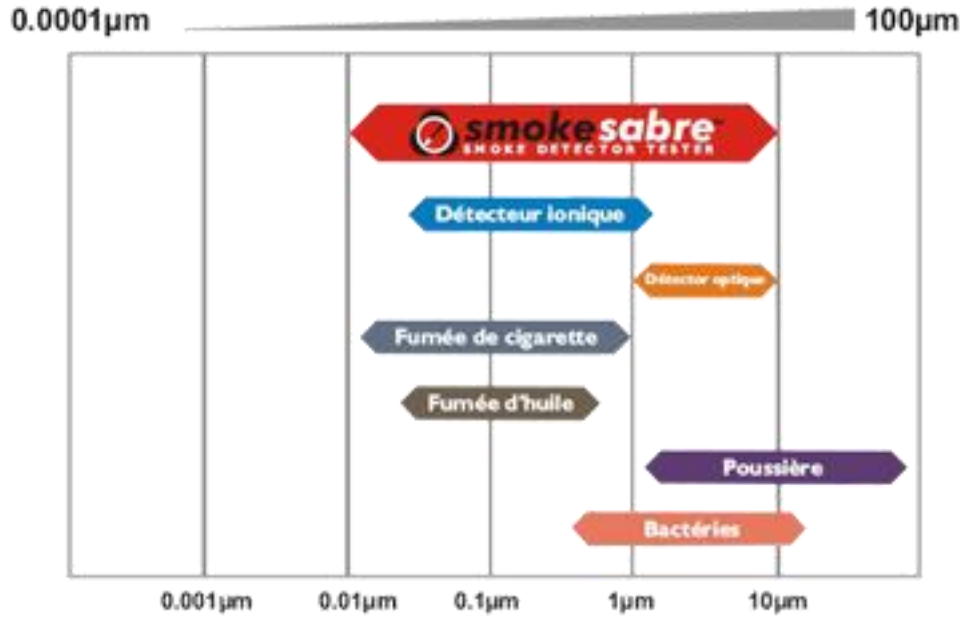
شعبه نماینده انحصاری محصولات DetectorTesters انگلستان در ایران

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قم، بلوار ۵۵ متری عماریاسر، بین کوچه ۱۸۹۱۶ پلاک ۷۰

تلفن ۳۱-۳۷۷۱۶۶۳۰ اتوفاکس ۳۷۷۰۳۲۳۰ همراه ۰۹۱۲ ۴۵۱۶۴۷۰

جدول مقایسه اندازه ذرات دود



**اطلاعات جزئی و فنی کارخانه تولید کننده**

**SAFETY DATA SHEET**

SDS0084UK

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 453/2010

**1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

**Product Name**

**Smoke Sabre.**

**Trade Name**

**Smokesabre-01-XXX (XXX denotes customer vari**

**CAS No.**

**Mixture.**

**EINECS No.**

**Mixture.**

**REACH Registration No.**

**None assigned.**

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Identified use(s)**

**Smoke simulation.**

**Uses advised against**

**None known.**

### 1.3 Details of the supplier of the Safety Data Sheet

#### Company Identification

**Detectortesters (No Climb Products Ltd)**  
**Edison House**  
**163 Dixons Hill Road**  
**Welham Green**  
**Hertfordshire. AL9 7JE.**  
**United Kingdom**

Telephone

+44 (0) 1707 282760

Fax

+44 (0) 1707 282777

E-mail

SDS@detectortesters.com

### 1.4 Emergency telephone number

Emergency Phone No.

+44 (0) 1707 282760

## 2. SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Directive 67/548/EEC & Directive 1999/45/EC F+; Extremely flammable.

### 2.2 Label elements According to Directive 67/548/EEC &



### Directive 1999/45/EC Hazard Symbol

Risk Phrases R12: Extremely flammable.

Safety Phrases S2: Keep out of the reach of children.

S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking.

Additional Information 96.5 % by mass of the contents are flammable.

Do not spray on a naked flame or any incandescent material. Do not pierce or burn, even after use. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C.

### 2.3 Other hazards None.

### 2.4 Additional Information None.

## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

### 3.1 Mixtures

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Butane	50 - 100	106-97-8	203-448-7	01-2119474691-32	F+; R12

Propane	10 - 25	74-98-6	200-827-9	01-2119486944-21	F+; R12
Ethanol	0 - 5	64-17-5	200-578-6	None assigned	F; R11

### 3.2 Additional Information

For full text of R/S phrases see section 16.

## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

**Inhalation**

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin Contact**

Wash with plenty of soap and water.

**Eye Contact**

Flush eyes with water for at least 15 minutes while holding eyelids open.

**Ingestion**

Unlikely route of exposure.

**4.2 Most important symptoms and effects, both acute and delayed** None anticipated.

**4.3 Indication of any immediate treatment needed** Unlikely to be required but if necessary treat medical attention and special symptomatically.

## 5. SECTION 5: FIRE-FIGHTING MEASURES

Pressurised container: May burst if heated.

### 5.1 Extinguishing Media

**Suitable Extinguishing Media** dioxide, dry chemical, foam or

Extinguish with carbon

waterspray.

**Unsuitable Extinguishing Media** Do not use water jet.

**5.2 Special hazards arising from the substance or mixture** Heating may cause pressure rise with risk of bursting.

**5.3 Advice for fire-fighters** complete protective clothing

Fire fighters should wear

including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

- 6.1 Personal precautions, protective Ensure adequate ventilation. Wear suitable equipment and emergency gloves and eye/face protection. procedures
- 6.2 Environmental precautions Do not release large quantities into the surface water or into drains.
- 6.3 Methods and material for Collect mechanically and dispose of according to containment and cleaning up Section 13. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Containers must not be punctured or destroyed by burning, even when empty.
- 6.4 Reference to other sections See Also Section: 8, 13.

**7. SECTION 7: HANDLING AND STORAGE**

- 7.1 Precautions for safe handling Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Provide adequate ventilation. Do not eat, drink or smoke during work. Wash hands thoroughly after handling.
- 7.2 Conditions for safe storage, including any incompatibilities Observe official regulations on storing packagings with pressurised containers.  
 Storage Temperature Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C.  
 Storage Life Stable under normal conditions.  
 Incompatible materials None anticipated.
- 7.3 Specific end use(s) Smoke simulation.

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

**8.1 Control parameters**

**8.1.1 Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Butane	106-97-8	600	1450	750	1810	WEL
Ethanol	64-17-5	1000	1920	-	-	WEL

**WEL: Workplace Exposure Limit (UK HSE EH40)**

**8.1.2 Biological limit value Not established.**

**8.1.3 PNECs and DNELs Not established.**

## **8.2 Exposure controls**

**8.2.1 Appropriate engineering controls Provide adequate ventilation.**

### **8.2.2 Personal protection equipment**

**Eye/face protection If eye contact is likely: Wear protective eyewear (goggles, face shield, or safety glasses).**



**Skin protection (Hand protection/ Other) Wear suitable**



**gloves if prolonged skin contact is likely.**

**Gloves: Nitrile rubber, NBR.**



**Respiratory protection No personal respiratory protective equipment normally**

**required. Handling of larger amounts: In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.**

**Thermal hazards Not applicable.**

### **8.2.3**

#### ***Environmental Exposure Controls***

**Do not release large quantities into the surface water or into drains.**

## **9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

**Appearance Aerosol.**

**Colour Colourless.**

**Odour Characteristic.**

**Odour Threshold Not determined. pH Not determined.**

**Melting Point/Freezing Point Not determined.**

**Initial boiling point and boiling range -44 °C**

**Flash Point <0 °C**

**Evaporation rate Not available.**



**Flammability (solid, gas) Extremely flammable.**

**Upper/lower flammability or explosive limits Explosive Limit Ranges: 1.5 – 15.0 Vol-%**

**Vapour pressure 4.3 bar @ 20 °C**

**Density 0.58 g/cm<sup>3</sup> @ 20 °C Vapour density Not determined. Relative density Not determined.**

**Solubility(ies) Immiscible with water.**

**Partition coefficient: n-octanol/water Not determined.**

**Ignition temperature 365 °C**

**Auto-ignition temperature Product is not selfigniting.**

**Decomposition Temperature Not determined. Kinematic Viscosity Not determined.**

**Explosive properties Not explosive.**

**Oxidising properties Not oxidising.**

## **9.2 Other information**

**Organic solvents - Content 96.4%**

**Solid Content 2.0%**

## **10. SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity Stable under normal conditions. 10.2 Chemical stability Stable under normal conditions.**

**10.3 Possibility of hazardous reactions Stable under normal conditions.**

**10.4 Conditions to avoid Heat and direct sunlight.**

**10.5 Incompatible materials None anticipated.**

**10.6 Hazardous Decomposition Product(s) None known.**

## **11. SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

#### **11.1.1 Mixtures**

<b>Acute toxicity</b>	<b>Low acute toxicity.</b>
<b>Irritation</b>	<b>Non-irritant.</b>
<b>Corrosivity</b>	<b>Not classified.</b>
<b>Sensitisation</b>	<b>It is not a skin sensitiser.</b>
<b>Repeated dose toxicity</b>	<b>None anticipated.</b>
<b>Carcinogenicity</b>	<b>No evidence of carcinogenicity.</b>

<b>Mutagenicity</b>	<b>There is no evidence of mutagenic potential.</b>
<b>Toxicity for reproduction</b>	<b>None anticipated.</b>
<b>Aspiration hazard</b>	<b>None anticipated.</b>
<b>11.2 Other information</b>	<b>None.</b>

**12. SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	<b>Low toxicity to aquatic organisms.</b>
<b>12.2 Persistence and degradability</b>	<b>The product is readily biodegradable. Unlikely to persist.</b>
<b>12.3 Bioaccumulative potential</b>	<b>The product has no potential for bioaccumulation.</b>
<b>12.4 Mobility in soil</b>	<b>Immiscible with water. The product is predicted to have low mobility in soil.</b>
<b>12.5 Results of PBT and vPvB assessment</b>	<b>Not classified as PBT or vPvB.</b>
<b>12.6 Other adverse effects</b>	<b>None.</b>

**13. SECTION 13: DISPOSAL CONSIDERATIONS**

<b>13.1 Waste treatment methods</b>	<b>Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility. Do NOT landfill.</b>
<b>13.2 Additional Information with local,</b>	<b>Disposal should be in accordance with state or national legislation.</b>

**14. SECTION 14: TRANSPORT INFORMATION**

<b>14.1 UN number</b>	<b>ADR, IMDG, IATA UN 1950</b>
<b>14.2 UN Proper Shipping Name</b>	<b>ADR 1950 AEROSOLS IMDG AEROSOLS IATA AEROSOLS, Flammable</b>
<b>14.3 Transport hazard class(es)/ Division</b>	<b>ADR Class 2 5F Gases Label 2.1 IMDG, IATA</b>

**Class 2.1**

**Label 2.1**

**14.4 Packing Group** ADR, IMDG, IATA None.

**14.5 Environmental hazards**

**Marine Pollutant** No.

**14.6 Special precautions for user** Warning: Gases.

**Kemler Code** - IMDG EMS F-D, S-U

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

**14.8 Additional Information**

**ADR**

**Limited Quantity (LQ)** 1 L



**ADR Transport Category** 2

**Tunnel Restriction Code** D

**IMDG**

**Limited Quantity (LQ)**

**IATA**

**Limited Quantity (LQ)**



**UN "Model Regulation"** UN 1950, AEROSOLS, 2.1

## 15. SECTION 15: REGULATORY INFORMATION

**15.1 Safety, health and environmental**

**regulations/legislation specific for the substance or mixture**

**15.1.1 EU regulations** Authorisations and/or restrictions on use

**Candidate List of Substances of Very High Concern** All chemicals are not listed. for Authorisation

**REACH: ANNEX XVII Restrictions on the All chemicals are not listed.**

manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**REACH: ANNEX XIV List of substances subject to All chemicals are not listed. authorisation**

**Community Rolling Action Plan (CoRAP); All chemicals are not listed. Draft 29/02/2012**

**15.1.2 National regulations None known. Wassergefährdungsklasse (Germany)**

**Ethanol WGK class 1**

**Technical Instructions (air)**

**VOC-CH 96.45%**

**VOC-EU 559.4g/l**

**Danish MAL Code 3-1**

<b>Class</b>	<b>Share in %</b>
<b>NK</b>	<b>50 - 100</b>

**15.2 Chemical Safety Assessment Not available.**

## **16. SECTION 16: OTHER INFORMATION**

**The following sections contain revisions or new statements: 1-16.**

### **LEGEND**

<b>LTEL</b>	<b>Long Term Exposure Limit</b>
<b>STEL</b>	<b>Short Term Exposure Limit</b>
<b>DNEL</b>	<b>Derived No Effect Level</b>
<b>PNEC</b>	<b>Predicted No Effect Concentration</b>
<b>PBT</b>	<b>Persistent, Bioaccumulative and Toxic</b>
<b>vPvB</b>	<b>very Persistent and very Bioaccumulative</b>
<b>WGK</b>	<b>Wassergefährdungsklasse (Germany)</b>
<b>VOC</b>	<b>Volatile Organic Compounds</b>
<b>MAL Code</b>	<b>Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)</b>
<b>ADR</b>	<b>Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</b>
<b>IMDG</b>	<b>International Maritime Code for Dangerous Goods</b>
<b>IATA</b>	<b>International Air Transport Association</b>
<b>F+</b>	<b>Extremely flammable</b>
<b>F</b>	<b>Highly flammable</b>

### **Risk Phrases**

**R11 Highly flammable.**

R12 Extremely flammable.

### Disclaimers

The information is based on the best knowledge of No Climb Products Ltd. and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are outside the control of the Company and its advisors we disclaim any liability for loss or damage when the product is used for purposes other than it is intended.



### شرکت آروین بناپاد

شعبه نماینده انحصاری محصولات DetectorTesters انگلستان در ایران

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تلفن ۳۱-۳۷۷۱۶۶۳۰ اتوفاکس ۳۷۷۰۳۲۳۰ همراه ۰۹۱۲ ۴۵۱۶۴۷۰

فروشگاه آنلاین:

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