

MATERIAL SAFETY DATA SHEET

Prepared to Commission Directive 1907/2006 (REACH) and US OSHA Standards

Data sheet No: MSDS0066UK Issue No: 10 Date: 03/06/09

WHAT IS THE PRODUCT AND WHAT INFORMATION IS REQUIRED IN AN EMERGENCY?

SECTION 1 – IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product Name: SOLO Aerosol Smoke Detector Tester

Part Number: SOLO A3 – XXX; SOLO A4 – XXX

Manufacturer: No Climb Products Ltd, Edison House, 163 Dixons Hill Road, Welham Green, Hertfordshire, AL9 7JE, UK
Tel +44 (0) 1707 282760; Fax +44 (0) 1707 282777

SECTION 2 – HAZARD IDENTIFICATION

OVER-EXPOSURE:

The most significant route of exposure for this product is by inhalation, eye or skin contact:

Inhalation:

- Inhalation of vapour mists or sprays of this product can cause mild to moderate irritation of the tissue of the nose, throat and upper respiratory system;
- Over-exposure (as a result of using several cans in a short period of time in a poorly ventilated area) can lead to headache, nausea, general anaesthetic effects and could result in an oxygen-deficient atmosphere due to the vapours of the spray being a lot heavier than air.

Skin and eyes:

- Eye contact with the spray may cause mild irritation;
- Sustained spraying directly onto skin may cause localised rapid cooling of tissue resulting in frostbite-type symptoms.

FIRE AND EXPLOSION HAZARDS:

- This product is classed as a non-flammable aerosol;
- As with all pressurised aerosol containers, cans may burst if heated to over 50°C (122°F).

SECTION 3 – COMPOSITION/INFORMATION ON COMPONENTS

Components	CAS No.	Approx. wt. %	EC Risk phrase/class
Mixture of alcohols	Mixture	1-20	R36, R11, F
HFC 134a (1,1,1,2-Tetrafluoroethane)	811-97-2	80-99	None
% Flammable components	Mixture	≤ 20%	

WHAT SHOULD BE DONE IF A HAZARDOUS SITUATION OCCURS?

SECTION 4 – FIRST AID MEASURES

Eyes:

- Lifting eyelids, flush with plenty of water; Obtain medical assistance if irritation persists;

Skin:

- Wash with soap and water; If irritation persists, seek medical attention;

Ingestion:

- Unlikely to happen as the product is a vapour/mist at room temperature; If product enters mouth, rinse mouth out with water and avoid swallowing;

Inhalation:

- Get to supply of fresh air; If irregular breathing occurs, qualified personnel should administer artificial respiration; Seek medical assistance if symptoms persist.

SECTION 5 – FIRE FIGHTING MEASURES

Unusual Fire and Explosion hazards:

- Under the normal conditions of use and when subjected to various flame/explosion tests defined by the relevant EC Directives and US DOT criteria, this product does not readily support combustion and is as such, classed non-flammable. However, it does contain a maximum of 20% flammable substances. Consequently, the product may present a slight flammability hazard if the canisters are involved in a fire or the flammable components fractionate (through a leak), producing compositions that are flammable.

Extinguishing Media:

- For large fires, use alcohol resistant foam, CO₂ or dry chemical powder;

Unsuitable Extinguishing Agent:

- Water with full jets;

Special Fire Fighting Procedures:

- Use water sprays to keep containers that are near a fire cool and vapours down;
- Move cans way from fire area if it can be done without risk to personnel;
- Fire fighters must wear self-contained breathing apparatus to guard against being overwhelmed by the products of combustion.

Special exposure hazards:

- None.

SECTION 6 – ACCIDENTAL RELEASE (SPILL AND LEAK) MEASURES:

Person-related safety precautions:

- With uncontrollable releases (i.e., release from several cans at once), evacuate affected area and ventilate;

Environmental Protection:

- Prevent run-offs from entering public watercourses;

Measures for cleaning:

- Ensure adequate ventilation to allow for evaporation of volatile components;
- Eliminate all sources of ignition before spill clean-up begins;
- Monitor area for combustible vapours and the level of oxygen;
- Absorb any remaining liquid components with liquid binding material and place in suitable container.

HOW CAN HAZARDOUS SITUATIONS BE PREVENTED FROM OCCURRING?

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING, STORAGE & USE

Safe handling:

- Good practices include keeping product away from heat, sparks and other ignition sources;
- Contents are under pressure- do not puncture or force open cans even when empty- cans may contain residual liquid or vapours which may be flammable;

Safe Storage:

- Observe official regulations on storing packaging with pressure containers;
- Store containers in cool, dry locations away from direct sunlight and do not store at temperatures exceeding 50°C (122°F) (e.g. passenger or back seat of a car in summer months);
- Do not store together with strong acids or oxidising agents;

Safe Use:

- As with all chemicals, avoid getting this product IN YOU- do not eat and drink whilst handling chemicals;
- Ensure good ventilation/mechanical exhaustion at workplace- if this is not possible, take regular breaks from use;
- Do not deliberately concentrate or inhale vapours;
- Follow label directions carefully; use only with **SOLO** dispenser.

SECTION 8 – EXPOSURE CONTROLS

Occupational Exposure Limit

- HFC 134a (1,1,1, 2- Tetrafluoroethane) 1000ppm / 4240mg / m³ (8hr TWA reference period).

Respiratory Protection:

- No protective device is required during normal use of product;
- Mechanical ventilation is recommended where product is used in confined spaces- if this is not possible, take regular breaks in fresh air.

Personal Protection:

- Wear PPE (personal protective equipment) appropriate to the task and the environment.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical & Chemical properties:

The following information is for 1,1,1,2- Tetrafluoroethane, the main component of this product:

Vapour density (air = 1)	5.26 kg/m ³ (0.328 lb/ft ³)
Solubility in water (25°C, 77 °F)	0.15% wt
Melting point	-101°C (-149.8 °F)
Boiling point (760 mm Hg)	-26.5°C (-15.7 °F)
Flash point	Non-flammable
Vapour pressure (20°C, 68 °F)	70 psig

The information given immediately below is pertinent to the aerosol product as a whole:

Form:	Aerosol (liquid released under pressure);
Colour:	Colourless, clear;
Residue formation:	Clean, non-greasy, fast evaporating;
Odour:	Faint sweet pleasant odour;
Pressure	@ 20°C (68 °F) ~6 bar (~ 87 psig); @ 50°C (122 °F)~11 bar (~159 psig);
Product Density	@ 20°C (68 °F)~1.02 g/ml (63.67 lb/ft ³);
Flashpoint of liquid	12°C (~ 54 °F);
Vapour density (air = 1)	Greater than 1;
Solubility in water	Partly miscible;
Aerosol flammability	Not flammable; Not self-igniting.

SECTION 10- STABILITY & REACTIVITY

Stability:

- Product is stable between 0 and 40°C (32 - 104 °F) and atmospheric pressures;

Conditions to avoid:

- Extreme heat, direct sunlight;

Materials to avoid:

- Strong oxidisers, strong acids, bases, alkali metals;

Hazardous decomposition products:

- On ignition, this product will decompose to produce oxides of carbon;

WHAT IS THE IMPACT OF THIS PRODUCT ON HEALTH AND THE ENVIRONMENT?

SECTION 11 – TOXICOLOGICAL INFORMATION

Under normal usage, this product should pose little risks to the health of the user.

PRIMARY IRRITANT EFFECT:

Skin, Eyes and Respiratory system:

- Irritant effect through absorption and rapid evaporation of liquid.

ACUTE TOXICITY:

- Over-exposure to this product can moderately irritate skin, eyes and mucus membranes;
- Inhalation over-exposure in poorly ventilated environments may cause nausea, headache, vomiting and general loss of co-ordination.

CHRONIC TOXICITY:

- Similarly, repeated inhalation over-exposure in poorly ventilated environments may cause some respiratory disorders such as pharyngitis;
- Pre-existing medical conditions in liver, kidney and heart may be aggravated by repeated over-exposure.

Additional information:

- 8 hr TWA (time weighted average) OEL (occupational exposure limit)UK for HFC 134a: 1000 ppm

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Mobility:

- Over 90% of the product is volatile and is expected to dissipate rapidly into well ventilated areas; the rest is water soluble and will remain primarily in water;

Environmental Degradability:

- This product biodegrades rapidly once in the environment;
- The propellants do not contain chlorine, are readily degradable in the troposphere and do not deplete the ozone.

Eco-toxicity:

- Low acute toxicity to aquatic life is expected. There is no data for long term adverse effects on aquatic life.

Other information:

	GWP 100 yr. time horizon Relative to CO₂= 1	ODP	Atm. life time	VOC
HFC 134a	1300	0	14	No

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal method:

- Consult local and national regulations;
- Do not puncture or incinerate containers.

+The information provided here has been expanded upon from technical literature obtained from suppliers of the product's ingredients.

WHAT INFORMATION DO I NEED TO KNOW REGARDING THE TRANSPORTATION, CLASSIFICATION, PACKAGING AND LABELLING OF THIS PRODUCT?

SECTION 14 – TRANSPORT INFORMATION

Designation of goods/Proper shipping name:

- Aerosols, non-flammable; Aerosols, non-flammable, (USA); ORM-D when transported in limited quantities (< 30kg or 66lb gross weight). (USA only)

UN- Number:

- 1950;

Land Transport (ADR/RID):

- ADR/RID class: 2.2 gasses that are compressed, liquefied or dissolved under pressure;
- ADR Item Number/Letter: 5°A;

Maritime Transport (IMDG)/Land-Sea Interface:

- IMDG Reference (Issue 2000) Vol.2 page 93, UN1950; Aerosols.

Air Transport (ICAO-TI/IATA):

- ICAO/IATA class: 2.2.

SECTION 15- REGULATORY INFORMATION

Designation according to EC Guidelines

This product has been classified and labelled in accordance with relevant EC Directives and national laws including the HSE Approved Supply List (L142) and the UK's CHIP (as currently amended) Regulations.

Code and hazard designation of product:

- Not applicable

Safety S- Phrases:

- 2 – Keep out the of reach of children;
- 3 – Keep in a cool place;
- 24/25 – Avoid contact with skin and eyes;
- 51 – Use only in well-ventilated areas.
- 26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Designation according to US Code of Federal Regulations

MSDS complies with OSHA's Hazard Communication Rule, 29 CFR 1910.1200.

U.S Superfund and Reauthorization Act (SARA) Title III, 1986 reporting requirements:

- Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)/SUPERFUND – Reportable quantities (40 CFR 117,302). None of the chemicals used appear in 40 CFR table 117.3
- Section 302/304- Extremely Hazardous Substances (40 CFR 355). None of the ingredients are Section 302/304 hazards.
- Section 311/312- Material Safety Data Sheet Requirements (40 CFR 370). By our hazard evaluation, the product should be reported under the following EPA Hazard:
 - Immediate (acute) Health Hazard (irritant);
 - Sudden Release of Pressure (compressed gas).
- Section 313- Toxic Chemical Release Reporting (Specific chemical toxic listings 40 CFR 372). This product does not contain any chemicals found on the list of toxic chemicals.

U.S Toxic Substances Control Act (TSCA).

All ingredients are TSCA listed.

Federal Water Pollution Control Act (40 CFR 401.15).

This product does not contain any chemicals found on the list of toxic pollutants.

Marine Pollutant (49 CFR 172.101, Appendix B).

The components of this aerosol are not classified by the DOT as marine pollutants.

California Proposition 65.

None of the ingredients of this product is on the California Proposition 65 list.

NFPA Hazard rating.

(1) Fire; (1) Health; (1) Reactivity

SECTION 16 – OTHER INFORMATION

Revision Status:

1. New Material Safety Data Sheet	17/01/01
2. Composition information, Maritime transport information corrected	06/07/01
3. Flash point corrected	24/07/01
4. a/Deletion of reference 20 and n.o.s. to section 14 (IATA revision 43) b/IMDG (section 14) amended to state Vol: 2 page 93, UN1950; Aerosols c/Addition of country code suffix to MSDS Reference No	25/04/02
5. CHIP 3 amendment review (section 16)	25/06/03
6. Change of Address	10/12/03
7. Section 2 deletion of reference to R38 Section 8 Include PPE statement Section 15 R phrases remove irritating to skin. S phrases add reference S26	18/08/05
8. Section 9 Solubility in water amended to 0.15% Melting & Boiling Points revised. Section 11: TWA / OEL terms, descriptive text added.	06/11/06
9. Reference to R36 and R37 is removed from Section 15 as applicable.	22/05/08
10. Change of Commission Directive page 1. Section 8 OEL (Occupational Exposure Limit) added.	03/06/09

As our policy is one of continuous improvement, details of products described within this publication are subject to change without notice. All information provided here is believed to be correct at the time of going to press. Every effort has been made to ensure the accuracy of information which is provided in good faith but nothing contained herein is intended to incorporate any representation or warranty, either express or implied or to form the basis of any legal relations between the parties hereto, additional to or in lieu of such as may be applicable to a contract of sale or purchase.

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 variant).
	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	Hazard Symbol	According to Directive 67/548/EEC & Directive 1999/45/EC 
	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 medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

Pressurised container: May burst if heated.

5.1 Extinguishing Media

Suitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or 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

Fire fighters should wear complete protective clothing 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.

6. 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 equipment and emergency procedures | Ensure adequate ventilation. Wear suitable gloves and eye/face protection. |
| 6.2 Environmental precautions | Do not release large quantities into the surface water or into drains. |
| 6.3 Methods and material for containment and cleaning up | Collect mechanically and dispose of according to 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 ³)	STEL (ppm)	STEL (mg/m ³)	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/cm³ @ 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	
	Acute toxicity	Low acute toxicity.
	Irritation	Non-irritant.
	Corrosivity	Not classified.
	Sensitisation	It is not a skin sensitiser.
	Repeated dose toxicity	None anticipated.
	Carcinogenicity	No evidence of carcinogenicity.
	Mutagenicity	There is no evidence of mutagenic potential.
	Toxicity for reproduction	None anticipated.
	Aspiration hazard	None anticipated.
11.2	Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

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

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	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.
13.2	Additional Information	Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

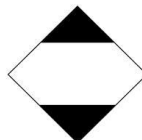
14.1	UN number	
	ADR, IMDG, IATA	UN 1950
14.2	UN Proper Shipping Name	
	ADR	1950 AEROSOLS
	IMDG	AEROSOLS
	IATA	AEROSOLS, Flammable
14.3	Transport hazard class(es)/ Division	
	ADR	
	Class	2 5F Gases
	Label	2.1
	IMDG, IATA	
	Class	2.1
	Label	2.1

- 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

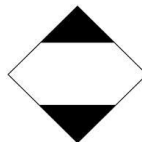


ADR Transport Category 2
 Tunnel Restriction Code D

2
 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 for Authorisation All chemicals are not listed.

REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles All chemicals are not listed.

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

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

15.1.2 National regulations

Wassergefährdungsklasse (Germany)

Ethanol

Technical Instructions (air)

None known.

WGK class 1

Class	Share in %
NK	50 - 100

VOC-CH 96.45%

VOC-EU 559.4g/l

Danish MAL Code 3-1

15.2 Chemical Safety Assessment

Not available.

CERTIFICATE OF COMPLIANCE

Certificate Number 20120307-S7201

Report Reference S7201-20120307

Issue Date 2012-March-07

Issued to: NO CLIMB PRODUCTS LTD

EDISON HOUSE
163 DIXONS HILL RD
WELHAM GREEN
HERTFORDSHIRE
AL9 7JE UNITED KINGDOM

**This is to certify that
representative samples of**

HEAT-AUTOMATIC FIRE DETECTOR ACCESSORIES
Solo 461 Cordless Heat Detector Tester

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.


Standard(s) for Safety:

UL 521 - Heat Detectors for Fire Protective Signaling Systems
UL 268C - Outline of Investigation for Multi-Detector Test Apparatus
CAN/ULC-S530-M91 - Heat Actuated Fire Detectors for Fire Alarm Systems

Additional Information:

See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle:  with the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

William R. Carney, Director, North American Certification Programs

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus



CERTIFICATE OF COMPLIANCE

Certificate Number 20120307-S7201
Report Reference S7201-20120307
Issue Date 2012-March-07

Issued to: NO CLIMB PRODUCTS LTD
EDISON HOUSE
163 DIXONS HILL RD
WELHAM GREEN
HERTFORDSHIRE
AL9 7JE UNITED KINGDOM


This is to certify that representative samples of HEAT-AUTOMATIC FIRE DETECTOR ACCESSORIES
Solo 461 Cordless Heat Detector Tester

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 521 - Heat Detectors for Fire Protective Signaling Systems
UL 268C - Outline of Investigation for Multi-Detector Test Apparatus
CAN/ULC-S530-M91 - Heat Actuated Fire Detectors for Fire Alarm Systems

Additional Information: See the ULC Online Certification Directory at www.ulc.ca for additional information

Only those products bearing the ULC Listing Mark should be considered as being covered by ULC's Listing and Follow-Up Service.

The ULC Listing Mark generally includes the following elements: the symbol ULC in a circle:  with the word "LISTED"; a control number (may be alphanumeric) assigned by ULC; and the product category name (product identifier) as indicated in the appropriate ULC Directory.

To confirm the status, validate the above information via the online directory.

Look for the ULC Listing Mark on the product.

Martin Oughton, President & General Manager
UNDERWRITERS LABORATORIES OF CANADA INC.

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16. SECTION 16: OTHER INFORMATION

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

LEGEND

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

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.

Annex to the extended Safety Data Sheet (eSDS)

No information available.