

SAFETY DATA SHEET

SDS0061UK

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 2015/830

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

1.1 Product identifier

Product Name	Canned Smoke, Smoke Detector Tester.
Trade Name	Aero 300 –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	<p>Detectortesters (No Climb Products Ltd) Edison House 163 Dixons Hill Road Welham Green Hertfordshire. AL9 7JE. United Kingdom</p>
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
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2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP)	Aerosol 3; Pressurised container: May burst if heated. Eye Irrit. 2; Causes serious eye irritation.
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2.2 Label elements

Hazard Pictogram(s)	According to Regulation (EC) No. 1272/2008 (CLP)
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GHS07

Signal Word(s)	Warning.
Hazard Statement(s)	H229: Pressurised container: May burst if heated. H319: Causes serious eye irritation.
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251: Do not pierce or burn, even after use. P264: Wash hands thoroughly after handling. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Additional Information

14.5 % by mass of the contents are flammable.
Keep out of the reach of children.

2.3 Other hazards

High concentrations: May cause drowsiness and dizziness.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)
1,1,1,2-tetrafluoroethane	50 - 100	811-97-2	212-377-0	None assigned	GHS04, Press. Gas: Liquefied gas; H280
Propan-2-ol	10 - 25	67-63-0	200-661-7	01-2119457558-25	GHS02, Flam. Liq. 2; H225, GHS07, Eye Irrit. 2; H319, STOT SE 3; H336

3.2 Additional Information

For full text of H/P statements 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. If symptoms persist, obtain medical attention.

Skin Contact

Wash skin with soap and water.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

None known.

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.

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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.

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| 6.1 Personal precautions, protective equipment and emergency procedures | Ensure adequate ventilation. Avoid inhalation of high concentrations of vapours. 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

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| 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. Provide adequate ventilation.
Avoid inhalation of high concentrations of vapours.
Avoid contact with eyes. Avoid prolonged skin contact. Wear suitable gloves if prolonged skin contact is likely. See Section: 8. Do not eat, drink or smoke during work. Wash hands thoroughly after handling. |
| 7.2 Conditions for safe storage, including any incompatibilities | |
| Storage Temperature | Ambient.
Protect from sunlight. 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
1,1,1,2-tetrafluoroethane	811-97-2	1000	4240	-	-	WEL
Propan-2-ol	67-63-0	400	999	500	1250	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Propan-2-ol

DNEL	Oral	Inhalation	Dermal
Industry - Long Term - Local effects	-	-	-
Industry - Long Term - Systemic effects	-	500 mg/m ³	888 mg/kg bw/day
Consumer - Long Term - Local effects	-	-	-
Consumer - Long Term - Systemic effects	26 mg/kg bw/day	89 mg/m ³	319 mg/kg bw/day

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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

-26 °C

Flash Point

13 °C

Evaporation rate

Not applicable.

Flammability (solid, gas)

Non-flammable; tested to 2008/47/EC Annex 1.9.1(iii).

Upper/lower flammability or explosive limits

Explosive Limit Ranges: 2.0 – 12.0 Vol-%

Vapour pressure

5.2 bar @ 20 °C

Density

1.132 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

425 °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

14.8%

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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	No hazardous reactions known if used for its intended purpose.
10.4	Conditions to avoid	Heat and direct sunlight.
10.5	Incompatible materials	None anticipated.
10.6	Hazardous Decomposition Product(s)	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute toxicity	Low acute toxicity.
	Skin corrosion/irritation	Non-irritant.
	Serious eye damage/irritation	Eye Irrit. 2; Causes serious eye irritation.
	Respiratory or skin sensitization	It is not a skin sensitiser.
	Germ cell mutagenicity	There is no evidence of mutagenic potential.
	Carcinogenicity	No evidence of carcinogenicity.
	Reproductive toxicity	None anticipated.
	STOT - single exposure	Not classified.
	STOT - repeated exposure	Not classified.
	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.

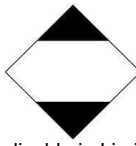
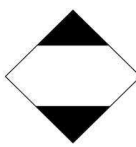


13. SECTION 13: DISPOSAL CONSIDERATIONS

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, Non-flammable
14.3	Transport hazard class(es)	
	ADR	
	Class / Classification	2 5A Gases.
	Label	2.2

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IMDG, IATA		
Class / Division		2.2
Label		2.2
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	3	
Tunnel Restriction Code	Not applicable in Limited Quantities.	
IMDG		
Limited Quantity (LQ)	1L	
IATA		
Limited Quantity (LQ)	1L	 
UN Model Regulation	UN1950, AEROSOLS, 2.2	

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, preparations 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)	All chemicals are not listed.
15.1.2 National regulations	None known.
Wassergefährdungsklasse (Germany)	
1,1,1,2-tetrafluoroethane	WGK class 1
Propan-2-ol	WGK class 1

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Technical Instructions (air)	Class	Share in %
	NK	10 - <25
VOC-CH	14.48%	
VOC-EU	167.3g/l	
Danish MAL Code	2-1	
15.2 Chemical Safety Assessment	Not available.	

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 relative 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
Aerosol 3	Aerosol Category 3
Eye Irrit. 2	Serious eye damage/irritation Category 2
Press. Gas	Gases under pressure
Flam. Liq. 2	Flammable Liquid Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3

Hazard Statement(s)

H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary Statement(s)

P280	Wear protective eyewear (goggles, face shield, or safety glasses).
P337 + P313	If eye irritation persists: Get medical advice/ attention.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.