SAFETY DATA SHEET SMOKE ALARM TESTER DSF1 / DSF2

SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1. Product identifier				
Product name	SMOKE ALARM TESTER DSF1			
Internal identification	DSF1 / DSF2			
1.2. Relevant identified uses of the substance or mixture and uses advised against				
Identified uses	SMOKE ALARM TESTER			
1.3. Details of the supplier of the safety data sheet				
Supplier	Gas Safe Europe Ltd 1 Daniels Court Gas Lane Mold Flintshire CH7 1UR			
	+44 (0) 1352 860600 + enquiries@gassafeeurope.com			
1.4. Emergency telephone number				
Emergency telephone	+44 (0) 7912503202 (24 hrs). +44 (0) 1352 860600 (Office hrs).			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture		
_	Classification (EC 1272/2008)	
	Physical hazards	Aerosol 1 - H222, H229
	Health hazards	Eye Irrit. 2 - H319
	Environmental hazards	Not Classified
	2.2. Label elements	
	Pictogram	
	× V	

 Signal word
 Danger

 Hazard statements
 H222 Extremely flammable aerosol.

 H229 Pressurised container: may burst if heated.
 H319 Causes serious eye irritation.

Precautionary statements	P102 Keep out of reach of children. 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.
	P280 Wear eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+P313 If eye irritation persists: Get medical advice/ attention. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 Dispose of contents/ container in accordance with national regulations. P211 Do not spray on an open flame or other ignition source.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures		
HYDROCARBON PROPELLANT		60-100%
CAS number: 68476-85-7	EC number: 270-704-2	
Classification Flam. Gas 1 - H220 Press. Gas (Liq.) - H280		
PROPAN-2-OL		10-30%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01- 2119457558-25-xxxx
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
GLYCERINE		<1%
CAS number: 56-81-5	EC number: 200-289-5	REACH registration number: 01- 2119471987-18-XXXX
Classification		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Get medical attention if any discomfort continues.		
4.2. Most important symptoms	and effects, both acute and delayed		
Inhalation	Vapours may cause drowsiness and dizziness.		
Ingestion	Gastrointestinal symptoms, including upset stomach.		
Skin contact	Product has a defatting effect on skin.		
Eye contact	Causes serious eye irritation.		
4.3. Indication of any immedia	te medical attention and special treatment needed		
Notes for the doctor	Treat symptomatically.		
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.		
5.2. Special hazards arising from	om the substance or mixture		
Specific hazards	Extremely flammable aerosol. Pressurised container: may burst if heated		
Hazardous combustion products	zardous combustionThermal decomposition or combustion products may include the following substances:ductsCarbon monoxide (CO). Carbon dioxide (CO2).		
5.3. Advice for firefighters			
Protective actions during firefighting	rotective actions during Use water to keep fire exposed containers cool and disperse vapours. Evacuate area. refighting		
SECTION 6: Accidental releas	e measures		

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Take precautionary measures against static discharges. Provide adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated. Avoid contact with contaminated tools and objects. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Wash thoroughly after dealing with a spillage.
	after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

Methods for cleaning upEliminate all sources of ignition. Provide adequate ventilation. Absorb small quantities with
paper towels and evaporate in a safe place. Wipe up with an absorbent cloth and dispose of
waste safely. Once evaporation is complete, place paper in a suitable waste disposal
container and seal securely. Containers with collected spillage must be properly labelled with
correct contents and hazard symbol. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling			
Usage precautions	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not get in eyes, on skin, or on clothing. Do not breathe vapour/spray. Do not enter storage areas or confined spaces unless adequately ventilated. Do not expose to temperatures exceeding 50°C/122°F. Do not pierce or burn, even after use. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Wash hands thoroughly after handling. Use only in well-ventilated areas.		
7.2. Conditions for safe stor	age, including any incompatibilities		
Storage precautions	Store at temperatures between 4°C and 40°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not expose to temperatures exceeding 50°C/122°F.		
Storage class	Flammable compressed gas storage.		
7.3. Specific end use(s)			
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.		
SECTION 8: Exposure Controls/personal protection			

8.1. Control parameters

Occupational exposure limits

HYDROCARBON PROPELLANT

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³ Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

GLYCERINE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ WEL = Workplace Exposure Limit

PROPAN-2-OL (CAS: 67-63-0)

DNEL	Industry - Dermal; Long term systemic effects: 888 mg/kg/day Industry - Inhalation; Long term systemic effects: 500 mg/m ³ Consumer - Dermal; Long term systemic effects: 319 mg/kg/day Consumer - Oral; Long term systemic effects: 26 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 89 mg/m ³
PNEC	- Fresh water; 140.9 mg/l
	- Marine water; 140.9 mg/l
	 Intermittent release; 140.9 mg/l
	- Sediment (Freshwater); 552 mg/kg
	- Sediment (Marinewater); 552 mg/kg
	- STP; 2251 mg/l
	- Soil: 28 ma/ka

GLYCERINE (CAS: 56-81-5)

DNEL	Workers - Inhalation; Long term local effects: 56 mg/m³ General population - Inhalation; Long term local effects: 33 mg/m³ General population - Oral; Long term systemic effects: 229 mg/kg/day
PNEC	 Fresh water; 0.885 mg/l Marine water; 0.0885 mg/l Intermittent release; 8.85 mg/l STP; 1000 mg/l Sediment (Freshwater); 3.3 mg/kg Sediment (Marinewater); 0.33 mg/kg Soil; 0.141 mg/kg
8.2. Exposure controls	
Protective equipment	





Appropriate engineering controls

Eye/face protection

Provide adequate ventilation.

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness: > 0.54 mm Neoprene. Thickness: > 0.67 mm Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Hygiene measures

Wash hands thoroughly after handling.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.	
Colour	Colourless.	
Odour	Alcoholic.	
рН	Not applicable.	
Solubility(ies)	Soluble in water.	
9.2. Other information		
Other information	Not determined.	
SECTION 10: Stability and reactivity		

10.1. Reactivity

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SMOKE ALARM TESTER DSF1 / DSF2

Reactivity		There are	e no known reactivity hazards associated with this product.
10.2. Chemi	cal stability		
Stability		Stable at	normal ambient temperatures and when used as recommended.
10.3. Possib	ility of hazardous r	eactions	
Possibility of reactions	f hazardous	Not deter	rmined.
10.4. Conditi	ions to avoid		
Conditions to	o avoid	Avoid he	at, flames and other sources of ignition.
10.5. Incomp	patible materials		
Materials to	avoid	No speci hazardou	fic material or group of materials is likely to react with the product to produce a us situation.
10.6. Hazaro	lous decompositio	n products	8
Hazardous d products	lecomposition	Thermal Carbon c	decomposition or combustion products may include the following substances: lioxide (CO2). Carbon monoxide (CO).
SECTION 1	1: Toxicological info	ormation	
11.1. Informa	ation on toxicologic	al effects	
Inhalation		Coughing	g, chest tightness, feeling of chest pressure.
Ingestion		Gastroint	testinal symptoms, including upset stomach.
Skin contact		Product I	nas a defatting effect on skin.
Eye contact Ca		Causes serious eye irritation.	
Toxicological information on ingredients.			
			PROPAN-2-OL
	Acute toxicity - ora	al	
	Acute toxicity oral mg/kg)	(LD₅₀	5,840.0
	Species		Rat
	ATE oral (mg/kg)		5,840.0
	Acute toxicity - de	rmal	
	Acute toxicity derr mg/kg)	nal (LD₅₀	16.4
	Species		Rabbit
SECTION 12: Ecological Information			
Ecotoxicity		Not rega	rded as dangerous for the environment.
12.1. Toxicity	v	0.1	-
Acute aquatic toxicity			
Acute toxicity	y - fish	Not deter	rmined.
Ecological information on ingredients.			

SMOKE ALARM TESTER DSF1 / DSF2

PROPAN-2-OL

	Acute aquatic toxicity					
	Acute toxicity - fish Acute toxicity - aquatic invertebrates		LC50, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)			
			LC₅₀, 24 hours: 9714 mg/l, Daphnia magna			
	Acute toxicity - ac plants	quatic	EC₅₀, 72 hours: > 100 mg/l, Scenedesmus subspicatus			
12.2. Persistence and degradability						
Persistence and degradability The product is expected to be biodegradable.						
12.3. Bioaccumulative potential						
Bioaccumula	ative potential	The proc	duct does not contain any substances expected to be bioaccumulating.			
12.4. Mobility in soil						
Mobility		The proc	duct is partly soluble in water and may spread in the aquatic environment.			
12.5. Results of PBT and vPvB assessment						
Results of P assessment	BT and vPvB	This pro	duct does not contain any substances classified as PBT or vPvB.			
12.6. Other	adverse effects					
Other adver	se effects	Not dete	rmined.			

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

Special Provisions note

14.1. UN number	
UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
14.2. UN proper shipping name	2
Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
14.3. Transport hazard class(e	<u>s)</u>
ADR/RID class	2.1
IMDG class	2.1
ICAO class/division	2.1
Transport labels	



14.4. Packing group ADR/RID packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

5F

14.6. Special precautions for user

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended). The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. Commission Regulation (EU) No 2015/830 of 28 May 2015.
	Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).
Guidance	Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information					
Abbreviations and acronyms	ATE: Acute Toxicity Estimate.				
used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by				
	Road.				
	CAS: Chemical Abstracts Service.				
	DNEL: Derived No Effect Level.				
	GHS: Globally Harmonized System.				
	LC₅o: Lethal Concentration to 50 % of a test population.				
	LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).				
	PBT: Persistent, Bioaccumulative and Toxic substance.				
	vPvB: Very Persistent and Very Bioaccumulative.				
	EC₅o: 50% of maximal Effective Concentration.				
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.				
Revision date	05/04/2018				
Revision	2.0				
Supersedes date	16/02/2017				
SDS number	27801				
Hazard statements in full	H220 Extremely flammable gas.				
	H222 Extremely flammable aerosol.				
	H225 Highly flammable liquid and vapour.				
	H229 Pressurised container: may burst if heated.				
	H280 Contains gas under pressure; may explode if heated.				
	H319 Causes serious eye irritation.				
	H336 May cause drowsiness or dizziness.				

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.