

# SmokeCheck 25S (Smoke Alarm Tester)

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 2017-03-10

Revision date: 2024-04-22

Version: 2.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : SmokeCheck 25S (Smoke Alarm Tester)  
Product code : Not available

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Smoke alarm tester.

#### 1.3. Supplier

##### Supplier

HSI Fire and Safety Group, LLC  
1424 Armour Blvd  
Mundelein, IL 60060  
U.S.A.  
T +1 (847) 427-8340 - F +1 (847) 427-8343  
[hsi@hsifiresafety.com](mailto:hsi@hsifiresafety.com)

##### Distributor

HSI Fire and Safety Group, LLC  
Unit # 1281  
3-1750 The Queensway  
Etobicoke, ON M9C 5H5

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1 (800) 424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Flam. Aerosol 1  
Press. Gas (Liq.)

#### 2.2. GHS Label elements, including precautionary statements

##### GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Precautionary statements (GHS) :

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Store in a well-ventilated place.

#### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Contact with the liquefied gas may cause frostbite.

#### 2.4. Unknown acute toxicity

Not applicable

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Isobutane	Isobutane 2-Methylpropane / Propane, 2-methyl- / ISOBUTANE / R600a / isobutane / R-600a	CAS-No.: 75-28-5	45 - 70
Propane	Propane Normal propane / PROPANE / n-Propane / R290 / R-290	CAS-No.: 74-98-6	30 - 60
n-Butane	n-Butane Butane / BUTANE	CAS-No.: 106-97-8	0.5 - 1.5

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: If skin irritation occurs: Obtain medical attention if irritation persists. Thaw frosted parts with lukewarm water. Do not rub affected area.
First-aid measures after 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. Thaw frosted parts with lukewarm water. Do not rub affected area.
First-aid measures after ingestion	: Not a normal route of exposure. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause respiratory tract irritation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Symptoms/effects after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquefied gas.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquefied gas.
Symptoms/effects after ingestion	: Not a normal route of exposure. May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Foam. Dry chemical.  
Unsuitable extinguishing media : Do not use carbon dioxide. Do not use water jet.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon. Oxides of nitrogen. Oxides of sulfur.  
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Cool closed containers exposed to fire with water spray.  
Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapours may be heavier than air and may travel along the ground to a distant ignition source and flash back.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate every possible source of ignition. Use only non-sparking tools. Use special care to avoid static electric charges.

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.  
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed	: Hazardous waste due to potential risk of explosion.
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 an open flame or other ignition source. Use only non-sparking tools. Avoid contact with skin and eyes. Do not swallow. Avoid breathing dust/fume/gas/mist/vapours/spray. When using do not eat, drink or smoke. Handle and open container with care.
Hygiene measures	: Wash contaminated clothing before reuse. Wash hands, forearms and face thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep out of the reach of children. Keep container tightly closed. Keep in fireproof place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store away from direct sunlight or other heat sources. Store in a well-ventilated place.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

SmokeCheck 25S (Smoke Alarm Tester)	
No additional information available	
Isobutane (75-28-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Isobutane
ACGIH OEL STEL	1000 ppm (EX - Explosion hazard)
Remark (ACGIH)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2021
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	1900 mg/m <sup>3</sup>
NIOSH REL TWA	800 ppm
Propane (74-98-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Propane
Remark (ACGIH)	TLV® Basis: Simple Asphyxiant
ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen Content
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Propane
OSHA PEL TWA	1800 mg/m <sup>3</sup>
OSHA PEL TWA	1000 ppm

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Propane (74-98-6)	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
IDLH	2100 ppm (10% LEL)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	1800 mg/m <sup>3</sup>
NIOSH REL TWA	1000 ppm
n-Butane (106-97-8)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
USA - IDLH - Occupational Exposure Limits	
IDLH	1600 ppm (>10% LEL)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	1900 mg/m <sup>3</sup>
NIOSH REL TWA	800 ppm

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

<b>Hand protection:</b>
Wear suitable gloves. VITON gloves. Insulating gloves
<b>Eye protection:</b>
Safety glasses or goggles are recommended when using product.
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

#### Thermal hazard protection:

Use personal protective equipment as required.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Gas
Appearance	: Aerosol.
Colour	: Colourless
Odour	: Slightly ethereal
Odour threshold	: No data available
pH	: No data available
Melting point	: < -75 °C (< -99 °F)
Freezing point	: No data available
Boiling point	: -32 – 0 °C (-25 - 32 °F)
Flash point	: < -75 °C (< -99 °F)
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: > 1
Flammability	: Extremely flammable aerosol.
Vapour pressure	: 4.41 bar @ 21 °C (70 °F), 64 psig; 11.8 bar @ 54 °C (129 °F), 178 psig
Relative vapour density at 20°C / 68 °F	: 1.79 @ 21 °C (70 °F)
Relative density	: 0.538 @ 21 °C (70 °F)
Solubility	: Water: 0.008 % @ 21 °C (70 °F)
Partition coefficient n-octanol/water	: 1.35
Auto-ignition temperature	: > 462 °C (> 863 °F)
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: < 0.6 cP @ 21 °C (70 °F)
Explosive limits	: 1.9 – 8.4 vol % @ 25 °C (77 °F)
Explosive properties	: No data available
Oxidising properties	: No data available

#### 9.2. Other information

VOC content	: < 99 %
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal storage conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition. Direct sunlight. Moisture. Sparks. Open flame. Overheating.

#### 10.5. Incompatible materials

Acids. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Oxides of nitrogen. Oxides of sulfur.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.  
Acute toxicity (dermal) : Not classified.  
Acute toxicity (inhalation) : Not classified.

Isobutane (75-28-5)	
LC50 inhalation rat	> 800000 ppm (Exposure time: 15 min Source: ECHA_API)
Propane (74-98-6)	
LC50 inhalation rat	> 800000 ppm (Exposure time: 15 min Source: ECHA_API)
n-Butane (106-97-8)	
LC50 inhalation rat	658 g/m <sup>3</sup> (Exposure time: 4 h Source: NLM_CIP)
ATE CA (vapours)	658 mg/l/4h
ATE CA (dust,mist)	658 mg/l/4h

Skin corrosion/irritation : Not classified.  
Serious eye damage/irritation : Not classified.  
Respiratory or skin sensitisation : Not classified.  
Germ cell mutagenicity : Not classified.  
Carcinogenicity : Not classified.  
Reproductive toxicity : Not classified.  
STOT-single exposure : Not classified.  
STOT-repeated exposure : Not classified.  
Aspiration hazard : Not applicable

SmokeCheck 25S (Smoke Alarm Tester)	
Vaporizer	Aerosol
Symptoms/effects after inhalation	: May cause respiratory tract irritation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Symptoms/effects after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquefied gas.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquefied gas.
Symptoms/effects after ingestion	: Not a normal route of exposure. May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

#### 12.2. Persistence and degradability

##### SmokeCheck 25S (Smoke Alarm Tester)

Persistence and degradability	Not established.
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#### 12.3. Bioaccumulative potential

##### SmokeCheck 25S (Smoke Alarm Tester)

Partition coefficient n-octanol/water	1.35
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Bioaccumulative potential	Not established.
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##### Isobutane (75-28-5)

BCF - Fish [1]	1.57 – 1.97
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Partition coefficient n-octanol/water	1.09 – 2.8 (at 20 °C (at pH 7)
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##### Propane (74-98-6)

Partition coefficient n-octanol/water	1.09 (at 20 °C (at pH 7)
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##### n-Butane (106-97-8)

Partition coefficient n-octanol/water	2.31 (at 20 °C (at pH 7)
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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on global warming : No known effects from this product.

Other information : No other effects known.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Container under pressure. Do not drill or burn even after use.

Additional information : Flammable vapours may accumulate in the container. Hazardous waste due to potential risk of explosion.

### SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

DOT NA No : UN1950

UN-No. (TDG) : UN1950



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UN-No. (IMDG) : 1950  
UN-No. (IATA) : 1950

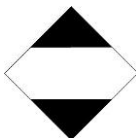
### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : AEROSOLS, flammable, limited quantity  
Proper Shipping Name (TDG) : AEROSOLS, flammable, limited quantity  
Proper Shipping Name (IMDG) : AEROSOLS (LTD QTY)  
Proper Shipping Name (IATA) : Aerosols, flammable, limited quantity

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Limited quantity  
Hazard labels (DOT) : 2.1



#### TDG

Transport hazard class(es) (TDG) : Limited quantity  
Hazard labels (TDG) : 2.1



#### IMDG

Transport hazard class(es) (IMDG) : Limited quantity  
Danger labels (IMDG) : 2.1



#### IATA

Transport hazard class(es) (IATA) : Limited quantity for air transport  
Danger labels (IATA) : 2.1



### 14.4. Packing group

Packing group (DOT) : Not applicable  
Packing group (TDG) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

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### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1 Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Isobutane	75-28-5	Present	Active	
Propane	74-98-6	Present	Active	
n-Butane	106-97-8	Present	Active	
Trisiloxane, 1,1,1,5,5,5-hexamethyl-3-phenyl-3-[(trimethylsilyl)oxy]-	2116-84-9	Present	Active	

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

### Indication of changes:

SDS update.

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date : 04/22/2024

Other information : None.

Prepared by : Nexreg Compliance Inc.

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



### Full text of H-statements

Flam. Aerosol 1	Flammable aerosols, Category 1
Press. Gas (Liq.)	Gases under pressure : Liquefied gas

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