

PurCheck

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : PurCheck
Product code : Not available

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
Use of the substance/mixture : Smoke Alarm Tester

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

HSI Fire and Safety Group, LLC
107 Garlisch Drive
Elk Grove Village, IL - U.S.A.
T +1 (847) 427-8340 - F +1 (847) 427-8343
tbarakat@hsifiresafety.com

HSI EU
Noord 49E
2931SJ Krimpen aan de Lek
The Netherlands

1.4. Emergency telephone number

Emergency number : CHEMTREC 1 (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol 3

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : Warning
Hazard statements (CLP) : H229 - Pressurised container: May burst if heated.
Precautionary statements (CLP) : 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.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Unknown acute toxicity (CLP) : 100 % of the mixture consists of ingredient(s) of unknown acute toxicity.
Unknown hazards to the aquatic environment (CLP) : Contains 98 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

May displace oxygen and cause rapid suffocation

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Propene, 1,3,3,3-tetrafluoro-, (1E)-	(CAS No) 29118-24-9	95 - 99	Liquefied gas, H280
Phenyl trimethyl siloxane	(CAS No) 2116-84-9 (EC no) 218-320-6	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 4, H413

Full text of H-statements: see section 16

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.

PurCheck

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

First-aid measures after skin contact	: If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists. Thaw frosted parts with lukewarm water. Do not rub affected area.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical 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, both acute and delayed

Symptoms/injuries after inhalation	: May cause respiratory tract irritation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.
Symptoms/injuries 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/injuries 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/injuries after ingestion	: Not a normal route of exposure. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: NOT FLAMMABLE. Treat for surrounding material.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: NOT FLAMMABLE. If pyrolysed by fire from another source, products of decomposition may include, and are not limited to: oxides of carbon, hydrogen fluoride, carbonyl fluoride.
Explosion hazard	: NOT FLAMMABLE. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Advice for firefighters

Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool. Use water spray to disperse the vapours.
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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 sources of ignition.
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6.2. Environmental precautions

No additional information available

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).
Methods for cleaning up	: Provide ventilation. Allow the residual product to evaporate.

6.4. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Container may explode if heated. Pressurized container: Do not pierce or burn, even after use. When using do not eat, drink or smoke. Use only in well-ventilated areas.
Hygiene measures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep out of the reach of children. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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7.3. Specific end use(s)

Smoke alarm tester.

PurCheck

Safety Data Sheet

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear chemically resistant protective gloves.
Eye protection	: Safety glasses or goggles are recommended when using product.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: 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.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas/Pressurized Liquid
Appearance	: No data available
Colour	: Colourless
Odour	: Odourless
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: > 1
Melting point	: < -75 °C (< -103 °F)
Freezing point	: No data available
Boiling point	: -19.4 °C (-3 °F)
Flash point	: None
Auto-ignition temperature	: > 462 °C (> 863 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: 3.24 bar at 21.1 °C (70 °F), 47 psig 9.66 bar at 54.4 °C (130 °F), 140 psig
Relative vapour density at 20 °C	: 4 @ 21.1 °C (70 °F)
Relative density	: 1.17 g/ml at 21.1 °C (70 °F) 1.06 g/ml at 54.4 °C (130 °F)
Solubility	: Water: 0.008 % @ 21.1 °C (70 °F)
Partition coefficient: n-octanol/water	: 1.43
Viscosity, kinematic	: No data available
Viscosity, dynamic	: < 0.6 cP at 21.1 °C (70 °F)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: None

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Incompatible materials. Sources of ignition. Direct sunlight. Moisture.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, hydrogen fluoride, carbonyl fluoride.

PurCheck

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified.

PurCheck	
LD50 oral rat	No data available
LD50 dermal rabbit	No data available
LC50 inhalation rat	No data available

Skin corrosion/irritation : Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Reproductive toxicity : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

PurCheck	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

PurCheck	
Partition coefficient: n-octanol/water	1.43
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

SECTION 14: Transport information

In accordance with ADR

14.1. UN number

UN-No. (ADR) : UN1950

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS, NON-FLAMMABLE

14.3. Transport hazard class(es)

Class (ADR) : 2.2

Danger labels (ADR) :



14.4. Packing group

Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

PurCheck

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Marine pollutant : No
Other information : No supplementary information available.

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no REACH candidate substance.
Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes:

None.

Other information : None.

Full text of H- and EUH-statements:

Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Liquefied Gas	Gas under pressure – Liquefied Gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H335	May cause respiratory irritation.
H413	May cause long lasting harmful effects to aquatic life

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aerosol 3	H229	On basis of test data
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