PurCheck

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.
Issue date: 4/28/2015 Revision date: 3/21/2024 Supersedes: 10/14/2016 Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name PurCheck
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

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 US classification

Press. Gas (Liq.)	Contains gas under pressure; may explode if heated
Simple Asphy	May displace oxygen and cause rapid suffocation

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Warning
Hazard statements (GHS US) : Contains gas under pressure; may explode if heated
May displace oxygen and cause rapid suffocation
Precautionary statements (GHS US) : Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : May displace oxygen and cause rapid suffocation.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. . Mixtures

Name	Product identifier	%
1-Propene, 1,3,3,3-tetrafluoro-, (1E)-	CAS-No.: 29118-24-9	60 - 100
Trisiloxane, 1,1,1,5,5,5-hexamethyl-3-phenyl-3-[(trimethylsilyl)oxy]-	CAS-No.: 2116-84-9	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 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 (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 of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.

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 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 the liquefied gas.

Symptoms/effects after ingestion : Not a normal route of exposure. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. Immediate medical attention and special treatment, if necessary

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: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Not flammable. Treat for surrounding material.

Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

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. Special protective equipment and precautions for fire-fighters

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 vapors.

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.

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

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/vapors/spray. Do not swallow. Container may explode if heated. . 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PurCheck

No additional information available

1-Propene, 1,3,3,3-tetrafluoro-, (1E)- (29118-24-9)

No additional information available

Trisiloxane, 1,1,1,5,5,5-hexamethyl-3-phenyl-3-[(trimethylsilyl)oxy]- (2116-84-9)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

8.3. Individual protection measures/Personal protective equipment

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.

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
Appearance	:	No data available.
Color	:	Colorless
Odor	:	odorless
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	< -75 °C (-103 °F)
Freezing point	:	No data available
Boiling point	:	-19.4 °C (-3 °F)
Flash point	:	None
Relative evaporation rate (butyl acetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	> 1
Flammability (solid, gas)	:	Not flammable
Vapor pressure	:	3.24 bar @ 21 °C (70 °F), 47 psig; 9.66 bar @ 54 °C (129 °F), 140 psig
Relative vapor density at 20°C	:	4 @ 21 °C (70 °F)
Relative density	:	1.17 g/ml @ 21 °C (70 °F); 1.06 g/ml @ 54 °C (130 °F)
Solubility	:	Water: 0.008 %
Partition coefficient n-octanol/water	:	1.43
Auto-ignition temperature	:	> 462 °C (> 863 °F)
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	< 0.6 cP @ 21.1 °C (70 °F)
Explosion limits	:	None

Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information

Percent Volatile, wt. % : 98 %

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.

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

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

1-Propene, 1,3,3,3-tetrafluoro-, (1E)- (29118-24-9)	
LC50 inhalation rat	> 207000 ppm/4h

Trisiloxane, 1,1,1,5,5,5-hexamethyl-3-phenyl-3-[(trimethylsilyl)oxy]- (2116-84-9)	
LD50 oral rat	≥ 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : 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
Viscosity, kinematic	:	No data available
Symptoms/effects 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/effects after skin contact	:	May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact 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 the liquefied gas.
Symptoms/effects after ingestion	:	Not a normal route of exposure. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
Symptoms/effects after ingestion	:	Not a normal route of exposure. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

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.

Trisiloxane, 1,1,1,5,5,5-hexamethyl-3-phenyl-3-[(trimethylsilyl)oxy]- (2116-84-9)	
BCF - Fish [1]	(384 L/kg (whole body w.w.)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging 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 DOT

14.1. UN number

DOT NA No : UN1950

14.2. UN proper shipping name

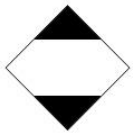
Proper Shipping Name (DOT) : Aerosols, non-flammable, limited quanitities

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 2.2

Hazard labels (DOT) : 2.2



14.4. Packing group

Packing group (DOT) : Not applicable

14.5. Environmental hazards

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. US 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
1-Propene, 1,3,3,3-tetrafluoro-, (1E)-	29118-24-9	Present	Active	PMN
Trisiloxane, 1,1,1,5,5,5-hexamethyl-3-phenyl-3-[(trimethylsilyl)oxy]-	2116-84-9	Present	Active	

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

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

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Revision date : 03/21/2024
Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com

Full text of H-phrases	
Press. Gas (Liq.)	Gases under pressure Liquefied gas
Simple Asphy	Simple Asphyxiant

Safety Data Sheet (SDS), USA

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