

PHOS-CHEK® 1% FLUORINE FREE

Safety Data Sheet

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

Date of issue: 09/13/2019

Revision date: 09/13/2019

Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : PHOS-CHEK® 1% FLUORINE FREE

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

Use of the substance/mixture : Fire extinguisher
For professional use only

1.3. Details of the manufacturer or supplier of the safety data sheet

Perimeter Solutions LP, Solberg 11520 Brookfield Ave. Green Bay, WI 54313 T. 1-920-593-9445	Perimeter Solutions 10667 Jersey Blvd. Rancho Cucamonga CA, 91730 T. 1-800-682-3626	Perimeter Solutions Canada Ltd., 3060 Airport Rd., Kamloops B.C., V2B 7X2 T. 1-250-554-3530
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1.4. Emergency telephone number

Emergency number : CHEMTREC 800-424-9300
CANUTEC 613-996-6666 (Transport Only)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Eye Irrit. 2A

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



GHS07

Signal word (GHS) : Warning
Hazard statements (GHS) : H319 - Causes serious eye irritation.
Precautionary statements (GHS) : P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face 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.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%
Diethylene glycol monobutyl ether	(CAS-No.) 112-34-5	10 - 30
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts	(CAS-No.) 61789-40-0	1 - 5
Sulfuric acid, mono-C12-14-alkyl esters, compounds with triethanolamine	(CAS-No.) 90583-18-9	1 - 5
Sodium N-(2-carboxyethyl)-N-(2-ethylhexyl)-.beta.-alaninate	(CAS-No.) 94441-92-6	0.5 - 1.5
Sodium octyl sulfate	(CAS-No.) 142-31-4	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 breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
- 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.
- First-aid measures after ingestion : Do not induce vomiting without medical advice. 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/effects after inhalation : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
- Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

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

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Polyvalent powder extinguishers (ABC powder)
- Unsuitable extinguishing media : Tap Water

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Organic compounds.

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).

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.

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. 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. Do not use sawdust or other combustible material to absorb spilled material

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Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

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

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. Handle and open container with care. When using do not eat, drink or smoke. Ensure adequate ventilation. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep the container hermetically sealed. Store in a dry, cool area. Take precautionary measures to prevent the formation of static electricity. Store at temperatures between 0-50° C (32-122° F).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diethylene glycol monobutyl ether (112-34-5)		
ACGIH	ACGIH TWA (ppm)	10 ppm (inhalable fraction and vapor)
Sodium octyl sulfate (142-31-4)		
Not applicable		
Sulfuric acid, mono-C12-14-alkyl esters, compounds with triethanolamine (90583-18-9)		
Not applicable		
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)		
Not applicable		
Sodium N-(2-carboxyethyl)-N-(2-ethylhexyl)-.beta.-alaninate (94441-92-6)		
Not applicable		

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Hand protection : Wear suitable gloves.
Eye protection : Wear eye/face protection.
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 : Avoid release to the environment.
Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Transparent
Colour : Yellowish
Odour : Characteristic
Odour threshold : No data available
pH : 6.5 - 7.5
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : > 199.4 °F /93 °C
Relative evaporation rate (butylacetate=1) : No data available

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Flammability (solid, gas)	: Not flammable.
Vapour pressure	: 11.99 kPa @ 122 °F/50 °C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1020 - 1060 kg/m ³ @ 68 °F/ 20 °C
Solubility	: Material highly soluble in water.
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 4.5 cP
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

Refractive index	: 1.375
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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 conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Direct sunlight. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Organic compounds.

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.

Sodium octyl sulfate (142-31-4)	
LD50 oral rat	3200 mg/kg
ATE CA (oral)	3200 mg/kg bodyweight

Sulfuric acid, mono-C12-14-alkyl esters, compounds with triethanolamine (90583-18-9)	
ATE CA (oral)	500 mg/kg bodyweight

Skin corrosion/irritation	: Not classified. pH: 6.5 - 7.5
Serious eye damage/irritation	: Causes serious eye irritation. pH: 6.5 - 7.5
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.

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Aspiration hazard	: Not classified.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

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Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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Diethylene glycol monobutyl ether (112-34-5)

BCF fish 1	(no bioconcentration expected)
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not regulated

SECTION 15: Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Sulfuric acid, mono-C12-14-alkyl esters, compounds with triethanolamine	CAS-No. 90583-18-9
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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 except for:

Sulfuric acid, mono-C12-14-alkyl esters, compounds with triethanolamine	CAS-No. 90583-18-9
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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

Revision date : 09/13/2019

Other information : None.

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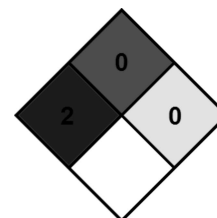
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Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



NFPA health hazard : 2
NFPA fire hazard : 0
NFPA reactivity : 0



Hazard Rating
Health : 2 Moderate Hazard
Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard

SDS HazCom 2012 - WHMIS 2015 (NexReg)

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