

Safety Data Sheet

PHOSCLEAN₅₁₀

SDS Revision Date: 08/03/2020

1. Product and Company Name

| | | |
|---|--|---------------|
| 1.1. Product identifier | | |
| Product Identity | PHOSCLEAN ₅₁₀ | |
| Alternate Names | NA | ID NO: 510.20 |
| 1.2. Relevant identified uses of the substance or mixture and uses advised against | | |
| Intended use | See product label. | |
| Application Method | See Technical Data Sheet. | |
| 1.3. Details of the supplier of the safety data sheet | | |
| Company Name | Hydrus Detergents 2621 7 th Avenue South Estherville, IA. 51334 | |
| 1.4 Medical and Emergency Spill Information | | |
| 24 hour Emergency Telephone No. | CHEMTREC: (800) 424-9300 Outside US: (703)-527-3887 | |
| Customer Service: Hydrus Detergents | PHONE: (712) 765-1060 FAX: (712) 765-1062 | |

2. Hazard identification of the product

| | | |
|--|---|--|
| 2.1. Classification of the sub stance or mixture | | |
| Acute Tox. 5;H303 | May be harmful if swallowed. (Not adopted by US OSHA) | |
| Skin Corr. 1B;H314 | Causes severe skin burns and eye damage. | |
| Eye Dam. 1;H318 | Causes serious eye damage. | |
| 2.2. Label elements | | |
| Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows. | | |



Danger

H303 May be harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

[Prevention]:

P260 Don't breathe mist/vapors/spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+330+331: If SWALLOWED Rinse mouth. Do NOT induce vomiting.
P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P305+351+338; IF IN EYES, Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P363 Wash contaminated clothing before reuse.

[Storage]:

P405: Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations | Weight % |
|---|----------|
| Phosphoric Acid CAS Number: 0007664-38-2 | 30 – 60 |
| Proprietary | 01 - 15 |

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to material other than this product may have occurred.

Inhalation

If breathing is difficult, move to fresh air.

Eyes

Allow streaming water to flow over the face while blinking the eyes for at least 15 minutes, making sure you have complete irrigation of the eye and lids. Seek medical attention immediately.

Skin

Immediately flush skin with plenty of water for at least 15-minutes while removing contaminated clothing and footwear. Seek medical attention if irritation persists. Wash contaminated clothing and shoes before re-use, discard if cannot be cleaned.

Ingestion

Do NOT induce vomiting. Give milk or water to dilute stomach contents. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Overview

IMMEDIATE CONCERNS: CAUTION: May cause eye or skin burns.

POTENTIAL SIDE AFFECTS:

EYES: Will cause eye damage if not treated immediately.

SKIN: May be an irritant if not rinsed off.

INGESTION: May be an irritant. May cause throat and stomach irritation and/or burns.

INHALATION: Avoid mist, may be an irritant. May cause throat and stomach irritation and/or burns.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

EYES: Irritation and/or burns.

SKIN: Mist may cause skin irritation.

INGESTION: May cause throat and stomach irritation and/or burns.

INHALATION: Mist in the air may cause irritation, nausea, headaches and dizziness.

ACUTE TOXICITY: Exposure to mist can do serious damage to all routes of entry.

See section 2 For Further details.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NA

See section 2 for further details.

Eyes

May cause serious eye damage.

Skin

May cause severe skin burns and eye damage.

Ingestion

May be harmful if swallowed. (Not adopted by US OSHA)

5. Fire-fighting measures

5.1. Extinguishing media: Water, Dry Chemical, Carbon Dioxide, Foam

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: High temperatures and fires may produce such toxic oxides as those from carbon, sulfur, and phosphorous.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Respiratory and eye protection are required for fire-fighting personnel. Full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

Keep personnel removed and upwind of fire. Neutralize any spills with lime or soda ash.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions:

WATER SPILL: Use appropriate containment to avoid runoff.

LAND SPILL: Use appropriate containment to avoid runoff.

6.3. Methods and material for containment and cleaning up

SMALL SPILL: Shut off leak if it can be done without injury. Contain spill with hazardous mats, pads or pillows. Place into recovery container.

Neutralize any residue with baking soda or lime.

LARGE SPILL: Shut off leak if this can be done without injury. Contain spill with hazardous mats, pads or pillows. Place into recovery container.

Neutralize any residue with baking soda or lime.

Neutralize residual product in the spill area using sodium carbonate or sodium bicarbonate.

7. Handling and storage

7.1. Precautions for safe handling

Handle in a well-ventilated area. Handle in a manner consistent with good industrial and/or manufacturing techniques and practices.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Do not store near oxidizers or bleach.

Incompatible materials: Oxidizing agents, alkalis.

Store in a cool dry area. Keep container closed when not in use. Freeze/thaw stable; however container may crack if frozen.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s) : Industrial detergent

8. Exposure controls and personal protection

8.1. Control parameters

EXPOSURE

| CAS No. | Ingredient | Source | Value |
|--------------|-----------------|----------|--|
| 0007664-38-2 | Phosphoric Acid | OSHA | TWA 1 mg/m ³ |
| | | ACGIH | TWA 1 mg/m ³ STEL: 3mg/m ³ |
| | | NIOSH | TWA 1 mg/m ³ ST 3 mg/m ³ |
| | | Supplier | No Established Limit |

Carcinogen Data: No suspected or known carcinogens.

8.2. Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Chemical splash goggles and face shield.

Skin

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact. Rubber gloves and acid resistant gloves.

Engineering Controls

Provide adequate ventilation. Facilities storing or using this material should be equipped with an eyewash facility and a safety shower. Good personal hygiene practices should always be followed.

REMARKS: This product contains hazardous ingredients per OSHA 29.CFR 1910.1200, No PEL's or OEL's for this product or its ingredients are listed in the current issue of ACGIH's Guide to Occupational Exposure values nor have they been determined by the manufacturer.

Other Work Practices

It is recommended to wear all proper safety equipment and/or clothing when using this product. An eyewash station should be located in areas where this product is used. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. Physical and chemical properties

Appearance

Clear Liquid

Odor

Citrus

Odor threshold

Not Measured

pH

5% Solution = < 2

Melting point / freezing point

32 F

Initial boiling point and boiling range

Not Measured

Flash Point

NA

Evaporation rate (Ether = 1)

Not Measured

Flammability (solid, gas)

Not Applicable

Upper/lower flammability or explosive limits

Lower Explosive Limit: Not Measured

Upper Explosive Limit: Not Measured

Vapor pressure (Pa)

23 @ 70 F

Vapor Density

4.1 (Air=1)

| | |
|---|--------------|
| Specific Gravity | 1.32 |
| Solubility in Water | Soluble |
| Partition coefficient n-octanol/water (Log Kow) | Not Measured |
| Auto-ignition temperature | NA |
| Decomposition temperature | Not Measured |
| Viscosity (cSt) | Not Measured |

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity: Hazardous Polymerization will not occur.

10.2. Chemical stability: Stable under normal circumstances.

10.3. Possibility of hazardous reactions: No data available

10.4. Conditions to avoid: High temperatures, flames and incompatibles. Do not store near oxidizers or bleach.

10.5. Incompatible materials: Oxidizing agents, Alkalis.

10.6. Hazardous decomposition products: High temperatures and fires may produce such toxic oxides as those from carbon, sulfur and phosphorous.

11. Toxicological information

Acute toxicity

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation Vapor LD50, mg/L/4hr | Inhalation Dust/Mist LD50, mg/L/4hr | Inhalation Gas LD50, ppm |
|-----------------------------|--------------------------|------------------------------|---------------------------------|-------------------------------------|--------------------------|
| Phosphoric Acid (7664-38-2) | 1,530.00 Rat-Category: 4 | 2,740.00, Rabbit-Category: 5 | No data available | No data available | No data available |
| Proprietary | No data available | No data available | No data available | No data available | No data available |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Classification | Category | Hazard Description |
|-------------------------------|----------|---|
| Acute toxicity (oral) | 5 | May be harmful if swallowed. (Not adopted by US OSHA) |
| Acute toxicity (dermal) | --- | Not Applicable |
| Acute toxicity (inhalation) | --- | Not Applicable |
| Skin corrosion/irritation | 1B | Causes severe skin burns and eye damage. |
| Serious eye damage/irritation | 1 | Causes serious eye damage |
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization | --- | Not Applicable |
| Germ cell mutagenicity | --- | Not Applicable |
| Carcinogenicity | --- | Not Applicable |
| Reproductive toxicity | --- | Not Applicable |
| STOT-single exposure | --- | Not Applicable |
| STOT-repeated exposure | --- | Not Applicable |
| Aspiration hazard | --- | Not Applicable |

12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment.

Aquatic Ecotoxicity

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|-------------|-----------------------|----------------------------|-------------------|
| Proprietary | Not Available | Not Available | Not Available |

12.2 Persistence and degradability: There is no data available on the preparation itself.

12.3. Bioaccumulative potential: Not Measured

12.4. Mobility in soil: No data available

12.5. Results of PBT and vPvB assessment: This product contains no PBT/vPvB chemicals

12.6. Other adverse effects: No data available

13. Disposal considerations

13.1 Waste treatment methods: Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

| | DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA |
|--|---|--|--------------------------|
| 14.1. UN number | UN1805 | UN1805 | UN1805 |
| 14.2. UN proper shipping name | UN1805, Phosphoric Acid solution 8, III | Phosphoric Acid solution | Phosphoric Acid solution |
| 14.3. Transport hazard class(es) | DOT Hazard Class: 8 DOT Label: Corrosive | IMDG: 8 Sub Class: Not Applicable | Air Class: 8 |
| 14.4. Packing group | III | III | III |
| 14.5. Environmental hazards | | | |
| IMDG | Marine Pollutant: No | | |
| 14.6. Special precautions for user: | No further information | | |

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification D2B E

US EPA Tier II Hazards

Fire: No
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs: Phosphoric Acid (5,000.00)

EPCRA 302 Extremely Hazardous : (No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals: (No Product Ingredients Listed)

Proposition 65 - Carcinogens (>0.0%): (No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%): (No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%): (No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%): (No Product Ingredients Listed)

N.J. RTK Substances (>1%) : Phosphoric Acid

Penn RTK Substances (>1%) : Phosphoric Acid

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

We believe this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act. We believe the information contained on this Safety Data Sheet is current and offered in good faith. The information is provided for your guidance only. Hydrus Detergents makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. It is the user's obligation to determine the suitability of this product for a specific purpose and the conditions for safe use of the product. We reserve the right to revise this Safety Data Sheet as newer information becomes available. Hydrus Detergents makes no warranty of any kind.

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