

1. Product and Company Identification

Product Code: 304184
Product Name: Dyne-O-Might
Company Name: Preserve International
Phone Number: (209)664-1607
PO Box 17003
Reno, NV 89511
Web site address: www.preserveinternational.com
Emergency Contact: ChemTEL (800)255-3924
Information: (209)664-1607

2. Hazards Identification

Skin Corrosion/Irritation, Category 1B
Acute Toxicity: Oral, Category 5
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Aquatic Toxicity (Acute), Category 3
Acute Toxicity: Skin, Category 4
Acute Toxicity: Inhalation, Category 4
Aquatic Toxicity (Acute), Category 1



Danger



Warning



Warning

GHS Hazard Phrases: Causes severe skin burns and eye damage.
May be harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
Harmful to aquatic life.
Harmful if inhaled.

GHS Precaution Phrases: Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Take off contaminated clothing and wash it before reuse.
Avoid release to the environment.
Use only outdoors or in a well-ventilated area.
Avoid breathing dust/fume/gas/mist/vapors/spray.

GHS Response Phrases: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Immediately call a POISON CENTER/doctor.
Specific treatment see section 4 on this label.
Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs, get medical advice/attention.
If eye irritation persists, get medical advice/attention.
Collect spillage.

GHS Storage and Disposal Phrases:

Store locked up.
Dispose of contents/container as per local regulations.

Potential Health Effects (Acute and Chronic):

Prolonged or repeated skin contact may cause defatting and dermatitis.

Chronic:

Inhalation:

Causes chemical burns to the respiratory tract. Causes respiratory tract irritation. Inhalation at high concentrations may cause CNS depression and asphyxiation.

Skin Contact:

Causes skin burns. Skin absorption in rabbits was found to cause focal hemorrhage of the lungs, discoloration of the liver and kidney, enlarged gall bladder, and gastrointestinal inflammation. Causes skin irritation.

Eye Contact:

Causes severe eye irritation and burns. Causes eye burns.

Ingestion:

Causes gastrointestinal tract burns. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
79-09-4	Propionic acid	25.0 -50.0 %	
7664-38-2	Phosphoric acid {Orthophosphoric acid}	5.0 -20.0 %	
NA	(Trade Secret)	0.0 -1.575 %	

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation:

Remove from exposure and move to fresh air immediately. Treat symptomatically. Get medical attention. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical aid.

In Case of Skin Contact:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid. Wash clothing before reuse.

In Case of Eye Contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Do NOT allow victim to rub eyes or keep eyes closed. Get medical aid.

In Case of Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Note to Physician:

Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt: Method Used: Estimate

Explosive Limits: LEL: UEL:

Autoignition Pt:

Suitable Extinguishing Media: Use foam, dry chemical, or carbon dioxide. Water may be ineffective. Do NOT use straight streams of water. In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Use water spray to keep fire-exposed containers cool. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Containers may explode in the heat of a fire. Vapors may be heavier than air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Flammable Properties and Hazards:

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors. Vacuum or sweep up material and place into a suitable disposal container.

7. Handling and Storage

Precautions To Be Taken in Handling: Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Do not breathe dust, vapor, mist, or gas. Do not ingest or inhale. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Avoid ingestion and inhalation.

Precautions To Be Taken in Storing: Keep away from sources of ignition. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Store in a cool, dry place.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
79-09-4	Propionic acid		TLV: 10 ppm	
7664-38-2	Phosphoric acid {Orthophosphoric acid}	PEL: 1 mg/m3	TLV: 1 mg/m3 STEL: 3 mg/m3	
NA	(Trade Secret)			

**Respiratory Equipment
(Specify Type):**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Eye Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Wear chemical splash goggles.

Protective Gloves:

Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing:

Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls
(Ventilation etc.):**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood. Use adequate ventilation to keep airborne concentrations low.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Reddish, Brown Liquid.
Propionic Acid.

Melting Point:

Boiling Point:

Autoignition Pt:

Flash Pt: Method Used: Estimate

Explosive Limits: LEL: UEL:

Specific Gravity (Water = 1): 1.10 - 1.15

Density: 9.163 - 9.58 LB/GAL

**Vapor Pressure (vs. Air or
mm Hg):**

Vapor Density (vs. Air = 1):

Evaporation Rate:

Solubility in Water: Complete

pH: 0.50 - 1.10

Percent Volatile:

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

**Conditions To Avoid -
Instability:** Incompatible materials, ignition sources, Metals. Excess heat, Strong oxidants.

**Incompatibility - Materials To
Avoid:** Steel, Metals. Reducing agents, Amines, Halogens, Oxidizing agents, Strong oxidizing agents, Is corrosive to many materials including leather, rubber, and many organics.

**Hazardous Decomposition or
Byproducts:** Carbon monoxide, Phosphine, oxides of phosphorus, hydrogen gas. irritating and toxic fumes and gases, Carbon dioxide, hydrogen bromide.

**Possibility of Hazardous
Reactions:** Will occur [] Will not occur [X]

**Conditions To Avoid -
Hazardous Reactions:**

11. Toxicological Information

Toxicological Information: Epidemiology: No data available.
 Teratogenicity: No data available.
 Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies: No information found.

Carcinogenicity/Other Information: CAS# 79-09-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7664-38-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 1973-22-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
79-09-4	Propionic acid	n.a.	n.a.	n.a.	n.a.
7664-38-2	Phosphoric acid {Orthophosphoric acid}	n.a.	n.a.	n.a.	n.a.
NA	(Trade Secret)	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information:

Ecotoxicity: Water flea Daphnia: TLm = 130 mg/L; 24 Hr; unspecified Fish: Fathead Minnow: LC50 = 4740 mg/L; 96 Hr; Flow-through bioassay at 24.7 °C (pH 7.60) Fish: Bluegill/Sunfish: LC50 : 5000 mg/l; 24Hr; Fish: Leuci Volatilization of propionic acid from environmental waters and moist soil should be extremely slow. Evaporation from dry surfaces is expected, especially when present in high concentrations such as in spill situation. The hydrolysis, photolysis and bioconcentration of propionic acid are not expected to be important fate processes.

Environmental: Estimate Koc value = 36. This value suggests that propionic acid should not partition from the water column to organic matter contained in sediments and suspended solids and should be highly mobile in soil. Leaching into ground water may occur. Estimated BCF value = 0. This value indicates that propionic acid should not bioconcentrate among aquatic organisms. Biodegradation is the expected to be the most important removal mechanisms of propionic acid from aerobic soil and water.

Physical: No information available.

Other: In the atmosphere this product exist primarily in the vapor phase and degrades by the reaction with photochemically produced hydroxyl radicals with a half-life of approximately 13 days. No information available.

Other: Do not empty into drains.

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
 RCRA U-Series: None listed.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Propionic acid, Phosphoric acid)
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN3264 **Packing Group:** III



15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
79-09-4	Propionic acid	No	Yes 5000 LB	No
7664-38-2	Phosphoric acid {Orthophosphoric acid}	No	Yes 5000 LB	No
NA	(Trade Secret)	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
79-09-4	Propionic acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 1599; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: Yes
7664-38-2	Phosphoric acid {Orthophosphoric acid}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 1805; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
NA	(Trade Secret)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

Regulatory Information:

Dyne-O-Might - This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:
DANGER: CORROSIVE. Causes eye damage and severe skin irritation. Avoid breathing mist. Do not get in eyes, on skin or on clothing, wear protective eyewear (goggles, face shield or safety glasses and gloves). Harmful or fatal if swallowed. Wash thoroughly with soap and water. Avoid contamination of food.

16. Other Information

Revision Date: 06/23/2015

Additional Information About

This Product:

Company Policy or

Disclaimer:

Preserve International believes that the data contained herein is factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted. However, the information presented is not to be taken as a warranty or representation for which Preserve International assumes legal responsibility. This data is offered solely for your information in accordance with applicable Federal, State, and Local laws and regulations.

