



**Section 1. Chemical product and company identification**

<b>Trade name:</b>	<b>X3</b>	<b>EPA Registration No.</b>	49538-4
<b>Manufacturer's name:</b>	Phyton Corporation 5608 International Parkway New Hope, MN 55428 763.432.4008	<b>Date of issue:</b>	12/15/10
		<b>EMERGENCY CONTACT</b>	<b>ChemTrec 800.424.9300 (CCN 20531)</b>

**Section 2. Composition, information on ingredients**

<b>Name</b>	<b>CAS Number</b>	<b>% by weight</b>
Acetic acid	64-19-7	24
Hydrogen peroxide solution	7722-84-1	6.9
Peroxyacetic acid	79-21-0	4.4
Octanoic acid	124-07-2	3.3

**Section 3. Hazards identification**

<b>Physical state:</b>	Liquid		
<b>Emergency:</b>	DANGER !		
<b>Overview:</b>	<p><b>CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS. MAY BE FATAL IF INHALED OR ABSORBED THROUGH SKIN. HARMFUL IF SWALLOWED. CAUSES RESPIRATORY TRACT IRRITATION. OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.</b></p> <p>Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Keep only in the original container. Avoid contact with combustible materials. Avoid all possible sources of ignition (spark or flame). Keep away from heat and direct sunlight. Decomposes on heating. Keep container closed. Wash thoroughly after handling.</p>		
<b>Potential acute health effects</b>			
<b>Eyes:</b>	Corrosive to eyes	<b>Inhalation:</b>	Irritating to respiratory system
<b>Skin:</b>	Corrosive to the skin	<b>Ingestion :</b>	Causes burns to mouth, throat and stomach
<i>See toxicological information (section 11)</i>			

**Section 4. First aid measures**

<b>Eye contact:</b>	In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Skin contact:</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention if irritation persists.
<b>Ingestion:</b>	If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Section 5. Fire fighting measures**

<b>Flash point:</b>	> 100°C Product does not support combustion.
<b>Hazardous thermal decomposition products:</b>	Decomposition products may include the following materials: carbon oxides sulfur oxides metal oxide/oxides
<b>Fire-fighting media and instructions:</b>	Use an extinguishing agent suitable for the surrounding fire. Use water spray to keep fire-exposed containers cool. Dike area of fire to prevent runoff. Contact with combustible material may cause fire. This material increases the risk of fire and may aid combustion. In a fire or if heated, a pressure increase will occur and the container may burst.





Section 6. Accidental release measures	
<b>Personal precautions:</b>	Immediately contact emergency personnel. Stop leak if without risk. Eliminate all ignition sources. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
<b>Environmental precautions:</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Methods for cleaning up:</b>	If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage	
<b>Handling:</b>	Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, spray or mists. Avoid contact with combustible materials. Keep container closed. Keep only in the original container. Use only with adequate ventilation. Wash thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
<b>Storage:</b>	Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed. Separate from reducing agents and combustible materials. Do not allow to freeze. Do not expose to temperatures above 100F (40°C).

Section 8. Exposure controls, personal protection		
<b>Engineering measures:</b>	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.	
<b>Personal protection</b>		
<b>Eyes:</b>	Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	
<b>Hands:</b>	Use chemical-resistant, impervious gloves.	
<b>Skin:</b>	Use synthetic apron, other protective equipment as necessary to prevent skin contact.	
<b>Respiratory:</b>	During fumigation/spraying wear suitable respiratory equipment.	
<b>Name</b>	<b>Exposure limits</b>	
<b>Acetic Acid</b>	<b>ACGIH TLV (United States, 9/2004).</b>	<b>OSHA PEL (United States, 6/1993).</b>
	STEL: 37 mg/m <sup>3</sup> 15 minute(s). Form: All forms	TWA: 25 mg/m <sup>3</sup> 8 hour(s). Form: All forms
	STEL: 15 ppm 15 minute(s). Form: All forms	TWA: 10 ppm 8 hour(s). Form: All forms
	TWA: 25 mg/m <sup>3</sup> 8 hour(s). Form: All forms	
<b>Hydrogen peroxide solution</b>	TWA: 10 ppm 8 hour(s). Form: All forms	
	<b>ACGIH TLV (United States, 5/2004).</b>	<b>OSHA PEL (United States, 6/1993).</b>
	TWA: 1.4 mg/m <sup>3</sup> 8 hour(s). Form: All forms	TWA: 1.4 mg/m <sup>3</sup> 8 hour(s). Form: All forms
	TWA: 1 ppm 8 hour(s). Form: All forms	TWA: 1 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties	
<b>Physical state:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Pungent
<b>pH :</b>	0.9 [Conc. (% w/w): 100%]
<b>Specific gravity:</b>	1.082
<b>Solubility :</b>	Easily soluble in cold water, hot water.





**Section 10. Stability and reactivity**

<b>Stability :</b>	The product is stable. Decomposes on heating. Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Reactivity :</b>	Extremely reactive or incompatible with organic materials, alkalis. Reactive with metals. Incompatible with chlorinated solvents. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
<b>Hazardous decomposition products:</b>	Oxygen

**Section 11. Toxicological information**

<b>Potential acute health effects</b>	
<b>Eyes:</b>	Corrosive to eyes.
<b>Skin :</b>	Corrosive to the skin.
<b>Inhalation:</b>	Irritating to respiratory system.
<b>Ingestion:</b>	Causes burns to mouth, throat and stomach.
<b>Potential chronic health effects</b>	
<b>Target organs:</b>	Contains material which may cause damage to the following organs: upper respiratory tract, teeth.

**Section 12. Ecological information**

Not available

**Section 13. Disposal considerations**

<b>Waste disposal:</b>	The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
<b>Waste classification:</b>	Unused product is D002 (Corrosive) Unused product is D001 (Ignitable)
<b>Consult your local or regional authorities.</b>	

**Section 14. Transport information**

<u>DOT Classification</u>	<u>UN Number</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>Packing group</u>
	UN3109	Organic peroxide type F, liquid, (Peroxyacetic acid, Type F, stabilized)	5.2 8	II

APPLIES ONLY DURING ROAD TRANSPORT

**Section 15. Regulatory information**

<b>HCS Classification:</b>	Oxidizing material	Corrosive material	Target organ effects
<b>U.S. Federal regulations:</b>	United States inventory (TSCA 8b): All components are listed or exempted. SARA 302/304/311/312 extremely hazardous substances: Peroxyacetic acid SARA 302/304 emergency planning and notification: Peroxyacetic acid		
<b>SARA 313</b>	<b>Product name</b>	<b>CAS number</b>	<b>Concentration</b>
<b>Form R- Reporting requirements</b>	Peroxyacetic acid	79-21-0	4.4

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