

## Material Safety Data Sheet

CEE 91/155 and CEE/93/112 Directives

**ORTHO PLUS**

28, rue Ampère – BP 28 - 91430 Igny France – Tél. /Fax: (33) 1 69 41 90 28/ (33) 1 60 19 32 22 [orthoplus@orthoplus.fr](mailto:orthoplus@orthoplus.fr)

### 1. Identification of the substance/device :

1.1 Device name : **ALPHA-ETCH 37**

### 2. Composition, information on ingredients:

Composition	CAS N°	wt%
2.1 Phosphoric acid - Hazard code : C - Risk code : R21, R22, R34	7664-38-2	/
2.2 Amorphous Silica - Hazard code : Xi - Risk code : R36/37	112945-52-5	/
It is important to note that materials in the product are physically bonded into a gel form and no independent compound dust or elements exist.		

### 3. Hasards identification:

Hazard classification : C – Corrosive

### 4. First aid measures:

- ✓ Skin : immediately wash the affected skin with plenty of water and soap while removing any contaminated clothing and shoes. If irritation occurs seek medical attention. Wash and rinse clothing thoroughly before reuse.
- ✓ Ingestion : do not induce vomiting. Drink plenty of water. Seek medical help immediately.
- ✓ Inhalation : inhalation is not an expected hazard.

### 5. Fire fighting measures:

The product is not considered to be a fire hazard.

#### - Extinguishing Media

Appropriate extinguishing media : use suitable means to extinguish surrounding fire, such as carbon dioxide.  
Inappropriate extinguishing media : water with strong full jet (not spayed) can move and spread the material.

Forbidden extinguishing media : none.

Special exposure hazards : toxic fumes of Phosphoric acid.

Unusual explosion hazards : not considered to be an explosion hazard. Contact with some metals may cause formation of flammable and explosive hydrogen gas.

Special protection equipment : self contained breathing apparatus if toxic fumes are generated.

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### 6. Accidental release measures:

- **Personal Precaution:** see handling precautions of Section VII and personal protection in section VIII

- **Environmental Precaution:** keep spilled material out of sewers.

- **Reclaiming methods :** absorb with liquid absorbent material such as sand, sawdust, acid binders, diatomite, etc. Neutralize acid before disposal as hazardous waste.

### 7. Handling and storage:

- Handling : avoid unnecessary exposure. Follow normal procedures for handling chemicals.
- Storage : room temperature.
- Incompatibilities : strong caustics, metals, sulfites, sulfides.
- Containers : store in original containers, keep all containers tightly closed.
- Other precautions : use by trained professionals only and according to directions. Avoid contact with eyes, skin and soft issue.

### 8. Exposure controls/personal protection:

Exposure limits :	OSHA-PEL		ACGIH-TLV	
	TWA	STEL	TWA	STEL
Phosphoric acid	1 mg / m <sup>3</sup>	3 mg / m <sup>3</sup>	1 mg / m <sup>3</sup>	3 mg / m <sup>3</sup>

**General ventilation :** local or general exhaust system is recommended to keep personnel exposures below the exposure limits.

**General protective measures :** follow the usual precautionary measures for handling chemicals and exercise good personal hygiene practice. Avoid contact with skin and eyes.

**Respiratory protection :** none required in normal use.

**Eye protection :** use safety glasses or goggles.

**Hands protection :** use of non-permeable gloves is recommended.

**Skin protection :** light weight protective clothing.

**Other equipment :** lab coat over clothing is recommended.

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### 9. Physical and chemical properties:

- ✓ Appearance : gel
- ✓ Color : blue or green
- ✓ Odor : odorless
- ✓ pH 10% solution : < 2
- ✓ Boiling point : no information found
- ✓ Flash point : not applicable
- ✓ Explosion limits : not an explosion hazard
- ✓ Water solubility : soluble
- ✓ Evaporation rate : NE
- ✓ Specific gravity range : 1.2
- ✓ Melting point : N.A

### 10. Stability and reactivity:

- **Stability** : stable if stored as directed
- **Conditions to avoid** : temperature above 40 C
- **Material to avoid** : strong caustics, sulfites, sulfides, metals
- **Hazards Products decomposition** : toxic fumes if temperature is above 100°C
- **Hazardous polymerization products** : will not occur

### 11. Toxicological information:

- Ingestion : corrosive. May cause sore throat, abdominal pain, nausea, severe burns to mouth, throat, upper respiratory tract, and stomach.
- Eye contact : corrosive. May cause redness, pain, blurred vision, eye burns or permanent eye damage.
- Skin contact : corrosive. May cause redness, pain, severe skin burns.
- Inhalation : inhalation is not a hazard unless the product is heated at high temperatures. In these conditions may cause irritation of the respiratory system, asfixia or permanent damage to the lungs.
- Prolonged exposure : no information found.

### 12. Ecological information:

There is no specific information on the product. Use according to good working practice.  
Avoid releasing the product into environment.

### 13. Disposal considerations:

Do not allow undiluted product or large quantities to reach ground water, or sewage system.  
Dike and cover spilled liquid with dirt, vermiculite or other inert absorbent. Cover spill with sodium bicarbonate and mix to neutralize. Neutralized waste must be disposed of in an approved disposal facility.  
Dispose containers and unused contents in accordance with Federal, State and local environmental regulations.

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### 14. Transport information:

- **Land transport :**  
DOT Hazard Classification : corrosive  
Class 8  
UN N° 1805  
Packaging group : III  
Hazard label : 8  
Description of goods : 1805 Phosphoric acid mixture
- **Air transport :**  
ICAO/IATA Class : 8  
UN/ID number : 1805  
Label : 8  
Packaging group : III  
Shipping name : Phosphoric acid, liquid mixture
- **Maritime transport :**  
Class 8  
UN number : 1805  
Packaging group : III  
EMS number : F-A,S-B  
Marine pollutant : no  
Shipping name : Phosphoric acid, liquid mixture

### 15. Regulatory information:

#### CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES

Hazard Classification symbol	C Corrosive
Risk statements	R 21 Harmful in contact with skin R 22 Harmful if swallowed R 34 Cause burns
Safety statements	S 24 Avoid contact with skin S 25 Avoid contact with eyes S 26 If eye is contacted rinse immediately with water. Seek medical advice.

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### 16. Other information:

	<b>NFPA Hazard Classification</b>	<b>HMIS Hazard Classification</b>
<b>Health</b>	<b>3</b>	<b>3</b>
<b>Flammability</b>	<b>0</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>	<b>0</b>
<b>Specific Hazard / PPE</b>	<b>Corr</b>	<b>B</b>

NFPA - National Fire Protection Association

HMIS - Hazardous materials Identification System

N/A - Not Applicable

N/E - Not Established

#### **CAUTION / PRODUCT FOR PROFESSIONAL USE ONLY.**

The above information is based on presently available data and to our best knowledge for handling the product under normal conditions. Any use of this product in any way not indicated on this document or using it together with any other process/procedure will be exclusively under the user's responsibility.

#### **Recommended use**

While the information and recommendations set forth on this data sheet are believed to be accurate as received from our suppliers, ORTHOPLUS makes no warranty with respect thereto and disclaims all liability from reliance thereon.