

MATERIAL SAFETY DATA SHEET:

Sure Ortho Etch *Green*

1. Chemical Product and Company Identification

Product Name: Sure Orthodontics. **Sure Ortho Etch *Green***
An unfilled etching gel consisting of 37% phosphoric acid in aqueous solution.

Manufacturer: Sure Orthodontics.

P.O. Box 3362 - 1211 Geneva 3 - Switzerland

2. Composition / Information of Hazardous Ingredients

Hazardous Ingredients	CAS#	Hazard Identification & Risk Phrases
Phosphoric acid	7664-38-2	C, R34
Pigment	Proprietary number	Xi, R22
Thickening agent	11138-66-2	Xi

- ✓ Additional information: For the wording of the listed risk phrases refer to section 16.

3. Hazards Identification Corrosive

Acute Health Hazards: May cause eye, respiratory and skin irritation.

Chronic Health Hazards: Material is not known to cause significant health problems.

Signs and Symptoms of Exposure: High concentrations can cause eye and respiratory irritation. Prolonged skin exposure can cause dryness.

Primary Routes of Exposure: Inhalation, skin contact, eye contact.

Carcinogenicity: NTP – no, OSHA – no, IARC – no.

4. First Aid Measures in Cause of Inhalation

Inhalation: If irritation occurs, take victim to open air. Get medical attention.

In case of skin contact: wash with soap and water.

In case of eye contact: Flush with large quantities of water for 15 minutes. Consult a physician.

In case of ingestion: Drink two glasses of water or milk. Seek medical attention if a substantial amount has been ingested. Do not induce vomiting.

5. Fire-Fighting Measures

Flash Point: Non-flammable

Extinguishing Media: Carbon dioxide, foam or dry chemical.

Unusual Fire and Explosion Hazards: Upon combustion, irritating gases may form..

6. Accidental Release Measures

Personal Precautions: Prevent skin/ eye contact

Environmental Precautions: Avoid ground water contamination..

Clean-Up Procedure: Wipe with damp paper towel. Discard properly.

7. Handling and Storage

Handling: No special measures necessary if handled according to instructions.

Storage: Keep container tightly closed when not in use. Store at room temperature. Keep material in original packaging. Avoid unnecessary exposure to the product. At high temperatures toxic fumes of phosphoric acid and phosphorous oxides can be generated.

8. Exposure Controls/ Personal Protection

Exposure Controls: Use only in well ventilated areas.

Eye Protection: Use protective eyewear.

Hand and Skin Protection: Avoid unnecessary skin contact. Wear latex gloves when handling.

Hygiene Measures: Remove spilled material from skin and clothing. Do not eat or drink when handling this material.

9. Physical and Chemical Properties

Appearance: Green semi-gel.

Odor: Odorless.

Boiling Point/ Range: >100°C/ 212°F

Evaporation Bate (water = 1): N/A

Vapor Density (Air = 1): N/A

Solubility in Water: Miscible

10. Stability and Reactivity

Stability: This material is stable.

Hazardous Reactions: None if handled according to directions

Conditions to Avoid: Heat.

Incompatibility: Strong caustics, metals, sulfides and sulfites..

11. Toxicological Information

Acute oral toxicity: LD50 (rat) > 5000 mg/kg

Irritation to Eyes: Irritates the eyes.

Irritation of Skin: May irritate the skin.

Allergic Effects: May cause allergic reaction on contact with skin.

Other: If swallowed, may cause sore throat and burns of the mouth and throat.

Prolonged exposure may cause burns to the respiratory tract, contact with soft tissues may cause burns.

12. Ecological Information

There is no specific information on the product. Use according to good working practices, avoiding release of the product into environment.

13. Disposal Considerations

May be disposed of in landfill or incinerator In accordance with local, state and federal regulations.

14. Transport Information

14.1 Transport at land	ADR	8	RID	8
	UN Number	1805	Kemler Number	---
	Packing Group	III		
14.2 Transport at sea	Proper shipping name	Phosphoric acid, liquid		
	ADNR	8	IMDG	31-02
	UN Number	1805		
	EMS	F-E, S-B	MFAG	700
	Packing Group	III		
14.3 Air transport	Proper shipping name	Phosphoric acid, liquid		
	ICAO / IATA-DGR	Klasse 8		
	UN Number	1805		
	Proper shipping name	Phosphoric acid, solution		
	Subsidiary Risk	---		
	Labels	Corrosive		
	Packing Group	III		

U.S. DOT Shipping Name: Not Regulated

U.S. DOT Hazard Class: None U.N/ N.A.

Number: None


U.S. Dot Packing Group: None

Other: Not considered hazardous cargo.

15. Regulatory Information

This product requires classification according to the criteria of EC.

The product is a medical device according to the EC-directive 93/42.

15.1 UN Number	1805
15.2 National regulations	
15.3 EU number	231-633-2
15.4 Hazard symbols	
15.5 Hazard designation	C C: Corrosive. Contains Phosphoric acid, solution in water.
15.6 Risk phrases	R: 34 34 Causes burns.
15.7 Safety phrases	S: 1/2, 26, 37/39, 45 1/2 Keep locked out and out of the reach of children. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise. 37/39 Wear suitable gloves and eye/face protection. 45 In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible).

U.S. – O.S.H.A. Status: This material is not hazardous under the criteria of the U.S. Federal Hazard Communication Standard.

16. Other Information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall establish a legally valid contractual relationship.

Relevant R-phrases

22 Harmful if swallowed.
34 Causes burns.

Material should be maintained in original containers. Empty containers should not be re-used.

AN SI / NFPA 704 DATA

Fire = 0

Health = 1

Reactivity = 0

This information is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, or the results to be obtained from use thereof. In no event will the manufacturer or distributor be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon this information. General properties described herein are to be regarded as guides and are not guaranteed for all samples.
