

## 1 Identification Of The Material

Product Name	YellowYellow Crystal Clear Glass and Stainless Steel Cleaner & Watermark Remover 250 mL
Product Origin	Made in Malaysia
Packed for Address	HardwareCity (S) Pte Ltd No. 2 Venture Drive, Vision Exchange #08-02/03 (S) 608526
Telephone No.	62660802
Email	sales@hardwarecity.com.sg

## 2 Composition On Ingredients

Ingredient Name	Natrium Tripofosfat 7758-29-4 Hydrochoric Acid Cas No.7647-01-0 Hydrochoric Acid Cas No.7664-39-3 Water		
NT	10%		
HCL	10%	UN Number	1789&1790
HF	25%	DG Class	8
Water	55%	Packing group	11
		Poison Schedule	S6
Recommended	Effective on glass, shower screens, automotive glass windscreens, stainless steel and brass surfaces		

## 3 Hazards Identification

### Acute Effects

Eyes	Severe eye irritant.Highly corrosive to eyes.
Skin	Corrosive to skin.
Ihalation	May cause irritation to mouth , nose, and throat.
Ingestion	Cause burn to mouth , throat, and stomach. Ingestion resulth in nuasea, vomiting , abdominal pain and convusions .If swallowed can kill.
Chronic Effect	prolonged skin contact may cause chronic dermatitis.

**4 First Aid Measure**

Eyes	Irrigate with plenty of water for 15 minutes. In all cases of eye contamination it is advisable to seek medical advice.
Skin	Wash skin with plenty of water. If irritation persists seek medical advice.
Inhalation	Not consider a feature of normal use. If irritation remove to fresh air. If irritation persists seek medical advice.
Ingestion	Rinse mouth with water. Give to drink. Do Not induce vomiting. Seek medical advice. treat symptomatically as for strong acid.

**5 Fire Fighting Measures**

Special Hazards	Non- Combustible
Extinguishing media	this product is not flammable and for fire in the surrounding use the appropriate extinguishing method for the area. The product is high acidic, avoid contact with metals to release hydrogen gas and cause explosion.
Protective Equipment	Self-contained breathing apparatus,

**6 Accidental Release Measures**

Spillage Cleanup	Wash with plenty of water. Contain the spillage and absorb with sand and earth.
Personal Environmental	Turn leak side up to prevent further leakage. Do not discharge into the drain. Contain the spillage by using bunding. Seek authority for advice.

**7 Handling And Storage**

Handling Requirement	Avoid direct contact with eye and skin. Always follow industrial safety practices.
Storage Condition	store in cool and dry place and keep container closed.
suitable Packaging Others	Must only kept in original container. Refer to State Regulation For storage and transportation requirements.

## 8 Exposure Controls Protection

### Work place Exposure Limits

Hydrochloric acid	OSHA PEL: 5ppm (TWA) TLV : 2 ppm (TWA)
Hdrofluoric acid	OSHA PEL : 3ppm (TWA) TLV : 0.5 ppm (TWA)
Engineering Measures	Must have well ventilated area to move HCL & HF vapour.
Respiratory Protection	Self- contained braething apparaus must be available.
Eye Protection	Wear safety glasses , face shield , viton rubber glove and impervious apparel. Avoid direct skin and eyes contact.

## 9 Physical And Chemical Properties

Appearance	Clear Liquid
Color	Colourless
Ordour	Fragrance Smell
pH	3 to 4
Boiling point	NA
Flash Point	NA
Specific Gravity	1.02
Vapour	NA
Solubility in water	Soluble

## 10 Stability And Reactivity

Stability	Stable at room temperature.
Condition to Avoid	Do not mix with other chemical.
Hazardous Decomposition of products	Heated may liberate hydrogen chloride and fluoride gases.

## 11 Toxicological Information

Toxicity	As Hydrochloric acid : Oral rabbit LD 50 : 900mg/kg As Hydrochloric acid :IHL HMN LCLD :50ppm/30min
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## Ecological Information

Mobility	Mobile, readily absorbed into soil. Volatile and soluble in water.
Degradability	Degradable
Boi-Accumulation	No -bio-accumulation

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## Disposal Consideration

Material	Refer to state Land Waste Management Authority.
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## Transport information

This product is categorised as Class 8 - Corrosive code for the Transport of Dangerous good by Road and Rail.

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## Regulation information

Risk Statement	R3 cause severe burns.
Safety statement	S2 Keep out of reach of children. S24 /25 Avoid contact with skin and eyes. S37 /39 Wear suitable glove, eyes and face protection.

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## Other Information

Packaging & Labelling	Class 8 - Corrosive
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The information contained herein is based on the present state of our knowledge and does not therefore certain properties . Recipients of our product must take responsibility for observing existing laws and regulations.