

HardwareCity HardwareCity (S) Pte Ltd Brand: YellowYellow Manufactured in Malaysia

Meterial Safety Data Sheet(MSDS)

1. Identification Of Material

Product Name

YellowYellow Tile Grout Cleaner

2. Composition On Ingredients

Ingredient Name Nontylphenol Ethoxylate Cas No.26027-38-3 Hydrochloric Acid Cas No.764-01-0 Hydrochloric Acid Cas No.7664-39-3

NP 9	2.50%	UN number	1789 &1790
нс	7%	DG Class	8
HF	2%	Packaing Group	11
water	100%	Hazchem Code. Paison Schedule	2R

3. Hazards Identification

Acute Effects	Severe eye irritation .Highly corrosive to eyes.
eyes	High corrosive to skin
Skin	May cause irritation to mouth , nose and throat.
Inhalation	cause burn To mouth throat and stomach .
Ingestion	Ingestion Result in nuasea, vomiting abdominal
	pain and convuisions .If swallowed can kill.
Chronic Effect	Prolonged skin contact my cause chronic dermatitis

4. First Aid Measures

Eyes	Irrigate with plenty of water for 15 minutesw. In cases of eye contamination 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 fresh air. If irratition persists seel medical advice.
Ingestion	Rinse mouth with water.Give water to drink . Do not induce vomiting.Seek medical advice. Treat symptomatically as for strong acid.

5. Fire Fighiting Measures

Special Hazards	Non-Combustible
Extinguishing Media	This Product is non-flammable for fire in the
	surrounding use appropriate extinguishing
	method forr the area . The Product is highly 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.Contained the spillage
	and absorb with sand and earth.
Personal precaution	Turn leak side up to prevent further laekge.
Environmental	Do not discharge into the drain . Contained 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	Must only keepin original container.
Others	Refer to State Regulation for storage and transportation requirements.

8. Exposure Controls

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Work Place Exposure Limits	
Hydrochloric Acid	OSHA PEL :5ppm(TWA)
	TLV : 2 ppm (TWA)
Hdrofluoric Acid	OSHA PEL :3ppm(TWA)
	TLV : 0.5ppm (TWA)
Enginerring Measures	Must have well ventilated area remove
	HL & HF vapour.
Respiratory Protection	Slf -contained braething apparatus must be
	available.
Eye Protection	Wear safety glasses, faceshield ,viton rubber
	gloves and impervious apparel.
	Avoid direct skin and eyes contact.

Physical And Chemical Properties

Appearance	Clear Liquid
colour	Colourless
Ordour	Fragrance smell
рН	3 to 4
Boiling Point	NA
Flash Point	NA
Specific Gravity	1.02
Vapour Pressure	NA
Solubility in Water	Soluble

10. Stability And Reactivity

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

11. toxicological Information

Toxicity Data As Hydrochloric acid : Oral rabbit LD:900mg/kg oral mouse LD 50: 50mg/kg IHL rat LC 50:3124ppm/hour IHL HMN LC 50 : 1300ppm / hour

> As hydrrofluoric acid : IHL HMN LCLD : 50 ppm / 30min IHL rat LC 50 : 1276 ppm / hour

12. Ecological Infromation

Mobility

Degradability Bio-Accumulation mobile ,readily absorbed into soil. Volatild and soluble in water. Degradable. No boi-accmulation

13. Disposal Conideration

material

Refer to State Land Waste Management Authority.

14. Transport information

This product is categorised as Class 8 -Corrosive code for the Transport of Dangerous Good By Road And Rail.

15. Regulatory Information

Risk Statement Safety Statement R3 Cause severe burns S2 Keep out of reach of children. s24 / 25 avoid contact with skin and eyes.

16. Other information

Packaging & labelling

Class 8 - Corrosive Packing Group II 25 Litre Carboy

The information contained herein is besed on the present on the present state of our knowledge and does not therefore guarantee certain properties .Recipients our of product must take responsibility for observing existing laws and regulations