

# P.T. JOENOE IKAMULYA

Manufacturer and Distributor of Consumer Products

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product Name : YURI PORSTEX WL  
Product Use : Porcelain & Ceramic Cleaner  
Packaging : Bottle 500 ml, 1000 ml  
Company : PT. Joenoes Ikamulya  
Jln. Pulogadung No. 43 Jakarta 13930-Indonesia  
Telephone : +62-21- 4602447  
e-mail : pt.joenoes@yuri-dee.com

### 2. HAZARDS IDENTIFICATION

Hazardous component : Muriatic Acid (Hydrochloric Acid)  
Classification (NFPA) : Health Hazard = 3  
Flammability = 0  
Reactivity = 1  
Hazardous to the aquatic Environment : Acute category 1  
Chronic Category 1  
GHS Label; symbols : Skull and crossbones, corrosion, health hazard  
Hazards Statement : Danger. Corrosive. Toxic if swallowed and in contact with skin. Fatal if inhaled. Causes severe eye damage.  
Precautionary System : Keep container tightly closed  
Wear protective gloves and eye/face protection  
Store container tightly closed in cool/well-ventilated place  
Harmful to aquatic life  
Possible sensitizer  
May cause damage to cardiovascular, respiratory nervous, and gastrointestinal system and liver and blood through prolonged

### 3. INFORMATION ON ACTIVE INGREDIENT

Chemical Names : Muriatic Acid (Hydrochloric Acid)  
CAS Registry Number : 7647-01-0  
Molecular Weight : 36.46

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## 4. FIRST AID MEASURES

General advice	: Keep out of reach of children.
Eyes	: Immediately flush eyes thoroughly with constantly running water for 15 minutes. Get immediate medical attention.
Ingestion	: Do not induce vomiting. If conscious give water or milk. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.
Inhalation	: Remove to fresh air immediately. Give artificial respiration if not breathing. Administer oxygen if breathing is difficult. Get immediate medical attention.
Skin	: Immediately flush with soap and running water. Remove contaminated clothing and shoes; wash before reuse.
Note to physician	: Do not use Sodium Bicarbonate in an attempt to neutralize the acid.
Antidote	: Do not use oils or ointments in eye.

## 5. FIRE-FIGHTING MEASURES

Extinguishing media	: This material is not combustible and not flammable. Use extinguishing media appropriate for surrounding fire. Do not get water inside containers. Do not use straight stream of water. Use water spray to keep fire-exposed containers cool. For small fires, use carbon dioxide (except for cyanides), dry chemical, dry sand, and alcohol resistant foam.
Fire fighting procedures	: Fire fighter should wear self-contained breathing apparatus and full protective clothing.
Fire & Explosion Hazards	: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Not flammable, but reacts with most metal to form flammable hydrogen gas. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Reaction with water may generate much heat which will increase the concentration of fumes in the air. Containers of this material may explode under high heat or fire conditions.

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## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear protective equipment including goggles or face shield and rubber gloves. In case of spill use self-contained breathing apparatus or a supplied air respirator.
- Environmental precautions : Keep non-neutralized material out of sewer system, storm drains, surface water and soil. Provide ventilation. Remove all sources of ignition. This product is toxic to aquatic organism.
- Methods for cleaning and take up : Large spills may be neutralized with dilute alkaline solution of soda ash, or lime. Clean up spills immediately, observing personal precaution. A vapor suppressing foam may be used to reduce vapors. Cover with dry earth, dry sand, or other non-combustible material followed with plastic sheet to minimize spreading and contact with water.

## 7. HANDLING AND STORAGE

- Handling : Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in well ventilated area. Contents may develop pressure upon prolonged storage. Use caution when opening container. Keep from contact with moist air and steam. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Discard contaminated shoes.
- Storage : Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosive area. Do not store in metal container. Store protected from moisture. Do not store near flammable or oxidizing substance (especially nitric acid or chlorates).

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters	: Occupational Exposure Limit OSHA Permissible Exposure Limit (PEL) 5 ppm Ceiling ACGIH Threshold Limit Value (TLV) 5 ppm Ceiling
Ventilation	: Local mechanical exhaust ventilation to minimize exposures to vapors or mist at the point of use.
Respiratory	: Wear self-contained breathing apparatus or a approved air respirator. Its may be full face-piece or a half musk air-purifying cartridge respirator equipped for acid gas/mist.
Eye/Face	: Chemicals goggles and safety glasses and/or a full face shield where splashing are acceptable eye protection.
Skin	: Wear rubber or neoprene gloves and additional protection including impervious boots as needed in areas of unusual exposure to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear Blue Liquid
Physical State	: Clear Liquid
Color	: Blue
Odor	: Spesific Lemon Fragrance
pH ( 28°C )	: 0.1 – 0.2
Specific Gravity	: 1,0075 – 1.0085
Viscosity ( 28°C )	: Not Available
Solubility	: Soluble in water
Flash Point	: Not Applicable
Melting Point	: -74 deg °C
Evaporation Rate	: Not Available
Flammability	: Not Available

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## 10. STABILITY AND REACTIVITY

Stability	: Stable under recommended storage conditions
Materials to avoid	: Strong Bases, strong mineral acids, amines, carbonates, cyanides, sulfites and formaldehyde, aluminum, metals, metal oxides, alkali metals and other alkaline materials
Condition to avoid	: Excessive heat, exposure to moist air or water, bases, mechanical shock, incompatible materials and metal.
Hazardous decomposition Products	: Hydrogen Chloride, Chlorine, carbon monoxide, carbon dioxide and hydrogen gas.
Hazardous Polymerization	: Will not occur

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Rabbit)	: LD 50 = 900 mg/Kg
Acute inhalation	: LC 50 = 1108 ppm/ 1H (mouse) LC 50 = 3124 ppm/ 1H (rat)
Skin irritation	: Irritating
Eye irritation	: Irritating to eyes
Reproductive effects	: No Data Available
Carcinogenic effects	: International Agency for Research of Cancer (IARC) Category 3 carcinogen: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA
Mutagenicity	: Cytogenetic analysis : Hamster, lung = 30 mmol/l; ovary = 8 mmol/l

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	: This product is toxic to aquatic organism
Environmental	: Rapidly hydrolyzes when exposed to water. Will exhibit extensive evaporation from soil surfaces. When release into the soil, this material may leach into ground water.

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## **13. DISPOSAL CONSIDERATIONS**

Do not discharge this product into sewer system, lakes, streams, bays or the ocean. Do not offer leaking or damaged containers for transportation.

When container empty, wash thoroughly with water.

Waste dispose in accordance with local, state and national regulation

## **14. TRANSPORT INFORMATION**

DOT Proper Shipping Name : Muriatic Acid  
DOT Hazard Class : 8  
DOT Identification Number : UN1789  
DOT Packing Group : PG II  
Shipping container : Polyethylene bottles  
Storage Conditions : Keep container closed

## **15. REGULATORY INFORMATION**

**National Fire Protection Association (NFPA) Ratings :**

Classification (NFPA) : Health Hazard = 3  
Flammability = 0  
Reactivity = 1

TSCA : CAS 7647-01-0 is listed on the TSCA Inventory

Registration Number of Medical Devices Production and Distribution Development,  
Directorate General Pharmacy and Medical Devices Service Ministry of Health of  
Republic of Indonesia as follow:

DEPKES RI PKD 20304800984 & DEPKES RI PKD 20304800980

## **16. OTHER INFORMATION**

The information contained herein is based on the present state of our knowledge and does not guarantee any particular properties.

Updated : 1<sup>st</sup> of November 2015.

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