

## 1. Product and Company Identification

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Product Name           **Pickling Dip Liquid**  
Part Number           **RXSOL-68-6805-005**

Company Details:  
RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point ::: Mumbai, Kandla Gandhidham, Chennai, Kolkata, Visakhapatnam,  
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## 2. Composition / Information on ingredients

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Chemicals /Ingridents	CAS No.	EC No.	Contents weight-%	Haza Risk
Nitric acid, HNO <sub>3</sub>	7697-37-2	231-714-2	20-40	O, C
Hydrofluoric acid, HF	7664-39-3	231-634-8	10-15	T+, C 28-35

Other ingrdient and surfactan is not hazardous.

Additional information Classification according to directive 67/548/EEC.Symbols  
and risk phrases are for concentrated substances.

## 3. Hazards Identification

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### CLASSIFICATION:

Health hazard in case of accidental exposure (R-phrases): Very toxic by inhalation, corrosive if swallowed. It causes severe burns.

Environmental effects: Pickling Fluid will strongly reduce aquatic life.

Physical and chemical risks:

When heated nitrous gases can

## **LABEL ELEMENTS:**

### **Hazard symbols:**

Very toxic

Corrosive

### **Risk phrases:**

R 26/27/28

R 35

## **4. First Aid Measures**

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**Inhalation:** Remove to fresh air. Keep victim lying down, quiet and warm. Rinse nose and mouth with water. Might require assistance with breathing. Seek medical care even if only slight discomfort occurs.

**Ingestion:** If victim is conscious and alert give milk or water to drink. Thereafter 20 lime tablets dissolved in 2 L of water. Do not induce vomiting. Seek medical care.

**Skin contact:** Rinse immediately with plenty of water, then treat with 2.5% Calcium Gluconate gel, or wash with soda water, soap etc.

**Eye contact:** Protect intact eye. Rinse immediately with plenty of water for at least 15 minutes and seek immediate medical care (eye specialist). Inform the doctor that the injury has been caused by contact with hydrofluoric and nitric acid mixtures.

## **5. Fire-fighting Measures**

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### **EXTINGUISHING MEDIA:**

Use most appropriate media to extinguish surrounding fire .

### **SPECIAL HAZARDS ARISING FROM THE MIXTURE:**

#### **Chemical exposure risks caused by released gases/vapours:**

The Pickling Fluid will emit toxic fumes and nitrous fumes when exposed to heat/fire.

### **ADVICE FOR FIREFIGHTERS:**

#### **Danger of fire/explosion:**

Fluid is non-flammable. Bottles close to fire should be removed or cooled with

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water.

**Protective clothing for firemen:**

Appropriate protective acid-resistant clothing should be used.

**Breathing protection:**

Gas mask with filter of chlorine type B (grey) and dust filter P2, according to CEN (Central European Norms).

**How to clean or destroy soiled fire equipment:**

Thoroughly wash with water.

**6. Accidental Release Measures**

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**Personal precautions:**

Avoid direct contact. If there is still a risk of direct contact or stench protect with some form of acid-resistant material. Wear eye protection, skin protection, rubber gloves and breathing apparatus. Keep working area well ventilated.

**ENVIRONMENTAL PRECAUTIONS:**

**Spillage (water, air, soil):**

Prevent spillage from entering sewage or public waters or nature.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

**Methods for cleaning up:**

Neutralise with RXSOL Neutralising Agent or a strong alkaline compound i.e. slaked lime. Embank with sand. Arrange for pick up. Rinse with plenty of water. Spillage should be picked up and disposed of in full compliance with federal, state and local regulations as acid waste.

**7. Handling and Storage**

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**Technical measures:**

Working place and methods should be worked out in order to avoid direct contact. Work and storage area should be well ventilated. A closed rinse water system with filtration and reuse of clear water is recommended.

**To prevent fire and explosion:**

Bottles close to fire should be removed or cooled with water.

**Precautions:**

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Avoid fume generation and accumulation by using in a well-ventilated area. Use in areas having local exhaust and general ventilation.

**Storage conditions:**

Keep containers securely closed when not in use and in an upright position. Store in areas where temperature remains between 0-30 °C at all times.

**Packaging materials:**

Package must be of acid resistant plastic material.

**SPECIFIC END USES**

See section 1. Contact the manufacturer for more information.

**8. Exposure controls and personal protection**

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**CONTROL PARAMETERS**

**Hydrofluoric acid:**

EU: IOEL 1,5 mg/m<sup>3</sup> (8 hr), 2,5 mg/m<sup>3</sup> (15 min)

**Nitric acid:**

EU: IOEL 0,05 mg/m<sup>3</sup> (8 hr)

**Sulphuric acid:**

EU: IOEL 0,05 mg/m<sup>3</sup> thoracic fraction (8 hr)

**Chronic effects, inhalation:**

Exposure to strong inorganic acid mists containing sulphuric acid is known to be a human carcinogen, based on sufficient evidence of carcinogenicity from studies in humans.

**EXPOSURE CONTROLS**

**Respiratory protection:**

Gas mask with a filter of the chlorine type B (grey) and dust filter P2

**Hand protection:**

Acid resistant rubber gloves.

**Eye protection:**

Face shield.

**Skin and body protection:**

Rubber boots and acid resistant clothes, which covers all body parts exposed to

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splashes.

**Specific hygienic measures:**

Do not inhale fumes, avoid contact with eyes, skin and clothes. It is not allowed to eat, drink and smoke at workplace. Remove contaminated clothes immediately. Wash hands and face thoroughly after working with pickling paste.

**Environmental exposure controls:** See section 6 and 7.

**9. Physical and chemical properties**

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**INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:**

Physical state (form, colour, smell) at 20oC:	Colourless liquid with a pungent smell.
Boiling point:	100oC - 105oC
Flash point / Explosion properties:	Not applicable
Specific temperatures:	Solid-fluid 40oC, Fluid-gas 50-60oC (nitric fumes)
Vapour pressure at 20oC:	