

# Material Safety Data Sheet

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## 1. Identification of Substance and of the Company

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Company: NSC CO. LTD SINGAPORE BRANCH  
Registered Office: 8 Shenton Way, #16-03, Singapore 068811  
UEN: T04FC6533A  
Manufacturing Factory: 76 Tuas South Street 5, Singapore 637809  
Contacts: Tel ) +65-6224-0190, Fax ) +65-6224-0132  
**Trade names/Synonyms: SUS CLEAN #300 S**  
Chemical Family: Inorganic Acid  
Creation Date: 11th September 2004  
Revision Date: 1st May 2009

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## 2. Composition/Information on Ingredients

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Component: Hydrofluoric Acid  
Cas No.: 7664-39-3  
Percentage: 3.0-10.0%

Component: Nitric Acid  
Cas No.: 7697-37-2  
Percentage: 10.0-20.0%

Component: Non ionic surfactant agent mixture  
Cas No.: Not Applicable  
Percentage: 1.0-5.0%

Component: Water  
CAS No.: 7732-18-5  
Percentage: 65.0-86.0

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## 3. Hazard Identification

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Toxic and Corrosive with water.  
UN classification: 8

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## 4. First-Aid Measures

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### Inhalation:

Remove from exposure area to fresh air immediately.  
If necessary, seek prompt medical attention.

### Skin Contact:

Remove contaminated clothing and shoes immediately.  
Wash affected area with large amount of water ( at least 30 - 60 minutes ).

### Eye contact:

Wash/flush eyes immediately with large amounts of water ( at least 30 - 60 minutes ).

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## ***5. Fire Fighting Measures***

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Fire and Explosion Hazard: Not applicable.

Extinguishing Media:

Extinguishing media includes dry chemical, carbon dioxide, water spray, or regular foam

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## ***6. Accidental Release Measures***

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Occupational Spill:

Do not touch spilled material. Wear a laboratory coat or acid - proof overalls, gloves, approved self contained breathing apparatus and safety boots. Stop leak if you can do it without risk. For a small amount, take up with sand or other absorbent material and place into containers for later disposal. For small dry leak, place material with clean shovels into clean dry container and cover it. Transfer the container from the spill area. For a large amount of leak, evacuate area. Reduce vapors with water spray.

Soil Spill:

Wear appropriate personal protective equipment (refer to Occupational Spill). Dig holding area such as lagoon, pond or pit for containment. Dike the spilled material for later disposal. Absorb with sand or other non-combustible material. Add an alkaline material such as lime, crushed limestone, sodium bicarbonate or soda ash.

Air Spill:

Wear appropriate personal protective equipment (refer to Occupational Spill). Reduce vapor with water spray. Collect runoff for disposal as potential hazardous waste.

Water Spill:

Add alkaline material such as lime, crushed limestone, sodium bicarbonate or soda ash to neutralize. Collect spilled material by using mechanical equipment.

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## ***7. Handling and Storage***

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Precaution:

Do not use under sunshine. Wear approved respirator, chemical -resistant gloves, safety goggles and other protective clothing. Use face shield or combined eye and respiratory protection. Provide ventilation, local exhaust, safety shower and eye bath in work place. Do not breathe vapor and mist. Do not get in eyes, on skins and on clothing. Avoid exposure. After handling, wash the body and contaminated clothing.

Storage Condition:

Store in shade to avoid sunshine. Ventilate at floor available.

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## ***8. Exposure Controls/Personal Protection***

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Personal Protection:

Respiratory Protection: Gas mask or air-ventilated mask

Protective Gloves: Anticorrosive protective glove

Eye Protection: Anticorrosive safety goggles;  
Other Protective clothing or equipment: Wear appropriate chemical resistant gloves and clothing  
Other operational precautions: Wash hands and face after using / handling operation

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### ***9. Physical and Chemical Properties***

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Appearance: Liquid  
Color: No Color  
Boiling Point: 98.5°C  
Melting Point: -37°C  
Flash Point: Not to boil  
Vapor Pressure: Not available  
Vapor Density: Not available  
Specific Gravity: 1.02  
Water Solubility: Soluble  
Odor Threshold: Pungent odor  
Evaporation Rate: Not available  
Hazardous Polymerization: Alcohol  
Hazardous Decomposition or by products: Not known

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### ***10. Stability and Reactivity***

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Stability: Unstable  
Incompatibilities: Corrosive to metal, glass and silicate

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### ***11. Toxicological Information***

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Toxicity: Highly corrosive to body (acute and chronic)  
Route of Entry: Inhalation, Skin Contact, Ingestion  
Exposure Limit: 3ppm  
Permit Limit: 3ppm  
Medical Conditions Generally Aggravated by Exposures: 30ppm Immediate danger to life or health

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### ***12. Ecological Information***

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This substance may be harmful to aquatic organisms

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### ***13. Disposal Consideration***

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Before disposal, neutralizing treatment to be made with suitable agents such as agriculture lime or lime.  
Waste must be disposed of in accordance with federal, state and local environmental controls

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### ***14. Transport Information***

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Any transportation practice must be in compliance with local, state or federal laws and regulations. (Contact local or state transportation agency for specific rules.)  
UN No.: 2031

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***15. Regulatory Information (not meant to be all inclusive)***

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Follow all local regulations

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***16. Other Information***

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References:

This information herein is given in good faith, but no warranty, express or implied, is made. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exists.