
SAFETY DATA SHEET

A. Identification of the Substance / Preparation and of the Company Undertaking

Product Name: SpEC Etch Cleaner
Company: Speciality Engineering Chemicals
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B. Composition / Information on Ingredients

General: An aqueous solution of the gas Hydrogen Chloride (Hydrochloric Acid) Less than 20%.

C. Hazards Identification

Causes Burns (R34)
Irritating to eyes, respiratory system and skin (R36/37/37)

D. First Aid Measures

Instantly remove any clothing soiled by the product and wash before re-use.

Eyes: Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating eyelids with fingers.
Skin: Instantly wash with copious amounts of water for at least 15 minutes.
Inhalation: Remove to open air. Seek medical treatment in case of complaints.
Ingestion: Rinse out mouth and then drink plenty of water. Do not induce vomiting. Seek medical advice.

E. Fire Fighting Measures

Suitable Extinguishing Media: Water, CO₂ extinguishing powder or foam.
Unsuitable Extinguishing Media: None known.
Special Hazards caused by the Material, its Products of Combustion or Flue Gases: Can be released in a fire Hydrogen Chloride (HC1)
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

F. Accidental Release Measures

Personal Precautions: Wear self-contained breathing apparatus and protective clothing. Keep unprotected persons away.

Environmental Protection:	Do not allow product to reach watercourses if it has not undergone an appropriate pre-treatment (biological purification plant).
Clean/Collecting:	Absorb with solid sodium bicarbonate. Place sweepings in bag and hold for disposal according to section M. Ventilate area and wash the spill site after waste material collection is complete.

G. Handling and Storage

Storage:	Store in polyolefin containers away from strong alkali solids or liquids. Protect from heat and direct sunlight. Class according to regulations on non-flammable liquids. None
Handling:	Wear chemical resistant protective clothing, gloves and eye face protection. Open and handle container with care, use approved respirator.

H. Exposure Controls / Personal Protection

Designation	CAS No.	%	OES
Hydrogen Chloride	7647-01-0	<20	7MG/M ₃ (15MINS)

Additional Information:
The lists that were valid during the compilation were used as basis.

Personal Protection Equipment:	
General Protection and Hygiene:	Avoid eyes and skin contact. Do not inhale gases/fumes/aerosols.
Respiratory Protection:	Not necessary if room is well ventilated.
Hand Protection:	PVC or PE gloves
Eye Protection:	Tightly sealed safety glasses
Skin Protection:	Impervious protective clothing

I. Physical and Chemical Properties

Form:	Liquid
Colour:	Colorless
Odour:	Mild
Boiling Point/Range:	Not determined
Flash Point:	Not determined
Flammability (solid, gaseous):	Non-flammable and non-self-igniting
Explosive Properties:	Product is not explosive
Vapour Pressure @ 20°C:	Not determined
Density @ 20°C:	Approx. 1.10 g/cm ³
Solubility/Miscibility:	Completely soluble in water and most lower alcohols and Glycerol
pH Value:	Approx. 1.0
Solvent Content:	Organic solvents – 0%

J. Stability and Reactivity

Conditions to Avoid:	Explosives with solid potassium permanganate.
Materials to be Avoided:	Strong alkali solids, liquids, amines and ammonia
Dangerous Reactions:	Will react violently with sodium metal.
Hazardous Decomposition Products:	In case of fire, HCl

K. Toxicological Information

Acute Toxicity:
LD/LC₅₀ values that is relevant for classification:
LD/LC₅₀ (rabbit) 900 mg/kg
Inhalation LC₅₀ (rat) 3124 ppm (1hr)

Primary Irritant Effects:	
Skin:	Irritant effect on skin and mucous membranes.
Eyes:	Irritant effect.
Sensitization:	Non-sensitizing

Additional Toxicological Information

The products shows the following dangers according to the calculation method of the general IEC Classification Guidelines for Preparations as issued in the latest version: Irritant

L. Ecological Information

Ecological Effects:	
Aquatic:	No data available
Remarks:	Depending on the concentration, toxic effects on activated sludge organisms are possible.
Additional Ecological Information:	
Formulation contains the following heavy metals and compounds according to EC guidelines No. 76/464 EC:	None
General Notes:	Hazardous in water Do not allow product to reach ground water, watercourses or sewage system, even in small quantities.

M. Disposal Considerations

Recommendation:	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe regulations pertaining to the disposal of particularly hazardous waste.
Un-cleaned Packaging:	Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning.

N. Transport Information

Tariff Code:	3806 9090 0
Class:	8 Corrosive Substances
UN Number:	1789

IMDG Page:	8183
Packing Group:	8 – 03
MFAG:	700
ADR Marginal:	2801 5 ^o (b)
Flash Point:	Not determined
Marine Pollutant:	No
Proper Shipping Name:	Hydrochloric Acid, solution

O. Regulatory Information Hazard – Corrosive (c)

Risk Phrases:	Causes Burns (R34) Irritating to eyes, respiratory system and skin (R36/37/38)
Safety Phrases:	Avoid contact with eyes (S 25) In case of contact with eyes rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective gloves (S37)

P. Other Information

The information contained in this Safety Data Sheet is intended to assist in the use of the above product without risk to safety or health and is based on current knowledge and experience. The data does not signify any warranty with regard to the product's properties.