



MATERIAL SAFETY DATA SHEET

Code: 2

SECTION I – MATERIAL IDENTIFICATION

Product Name: ACTION 2
Product Use: INHIBITED ACID DESCALER
Date Printed: 27-Nov-01
Manufacturer/Supplier: Active Chemicals Ltd., 7803 Progress Way, Delta, B. C. V4G-1A3, Canada
Emergency Telephone Number (CANUTEC): (613) 996-6666
WHMIS Classification: D1A, E
TDG Shipping Information: Hydrochloric Acid Solution, Class 8 (9.2), UN1789, P.G. II

SECTION II – HAZARDOUS INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS #</u>	<u>%</u>	<u>*OSHA(PEL)</u>	<u>*ACGIH(TLV)</u>	<u>LD50/LC50 (species/route)</u>
Hydrochloric acid	7647-01-0	25-35	5ppm,Ceiling	5ppm,Ceiling	LD50(rat, oral)=900mg/kg LC50(rat)= 3124ppm, 1 hr.

*Exposure Limits

SECTION III – PHYSICAL DATA

Physical State: liquid	% Volatile by weight: not determined
Odor and Appearance: pale yellow liquid with a pungent odor	Evaporation rate: not determined
Specific Gravity @ 20°C (g/ml): 1.16	Vapor Pressure (mm Hg): not determined
pH @ 20°C: < 1.0	Vapor Density (Air=1): not determined
Solubility in water (20°C): soluble	Odor Threshold (ppm): not determined
Boiling point (°C): not determined	Coefficient of water/oil distribution: not determined
Freezing point (°C): not determined	
Melting point (°C): not determined	

SECTION IV – FIRE AND EXPLOSION HAZARD

Flammability: not applicable	TDG Flammability Class: not applicable
Flash Point (°C) and Method: not applicable	Flammable limits (% by volume): not determined
Conditions of Flammability: none known	Auto Ignition Temperature (°C): not determined
Extinguishing Media: carbon dioxide, water, foam, dry chemicals. The product is not flammable. Use extinguishing media suitable for surrounding fires.	Explosion Data: -Sensitivity to mechanical impact: none known -Sensitivity to static discharge: none known
Special Fire Fighting Procedures: Wear NIOSH/MSHA approved, self contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.	Hazardous Combustion Products: toxic, corrosive fumes of hydrogen chloride, and carbon monoxide
Unusual Fire and Explosion Hazard: product in prolonged contact with some metals (i.e. aluminum, zinc, etc.) can liberate hydrogen gas and form flammable mixtures with air.	

SECTION V – REACTIVITY DATA

Chemical Stability: stable under normal storage conditions.
Incompatibility with Other Substances: strong oxidizers or reducing materials, alkalis and organic materials.
Hazardous Decomposition Products: may liberate toxic, corrosive fumes of hydrogen chloride, and carbon monoxide upon thermal decomposition.
Hazardous Polymerization: will not occur.

ACTIVE CHEMICALS LTD.

TILBURY INDUSTRIAL PARK, 7803 PROGRESS WAY, DELTA, BC. V4G 1A3 CANADA
TEL: (604) 946-0361 FAX: (604) 946-3901
EMERGENCY TELEPHONE NO. CANUTEC (613) 996-6666



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SECTION VI – TOXICOLOGICAL PROPERTIES OF MATERIAL

Exposure Limits: see section 2.

Primary Route of Entry: skin, eyes, inhalation and ingestion.

Irritancy Of Product: corrosive to skin, eyes and respiratory system.

Effects Of Acute Exposure to Product: product exposure can cause severe burns or damage to skin and eyes. Inhalation of vapors or mists can cause severe irritation, burns, damage to respiratory system; symptoms may include breathing problems, coughing, etc. Ingestion will cause severe burns or tissue damage to mouth and throat, gastrointestinal and abdominal pain.

Effects Of Chronic Exposure to Product: prolonged or repeated exposure can cause skin or eye damage, tissue damage, dermatitis, and respiratory disorder or lung damage.

Sensitization to Product: none known

Carcinogenicity: none known

Mutagenicity: none known

Teratogenicity: none known

Reproductive Toxicity: none known

Synergistic Products: none known

SECTION VII – PREVENTATIVE MEASURES

Respiratory Protection: wear a NIOSH/MSHA approved respirators appropriate for the emission level during product use. Respirators may include the following: a full-face acid gas/mist respirator, a self-contained breathing apparatus or a supplied air respirator.

Engineering Controls (Ventilation): use local exhaust as required to maintain emissions below the PEL at the point of use.

Protective Gloves: natural or butyl rubber, neoprene or viton.

Eye Protection: chemical goggles or face shield with full-face respirator.

Other Protective Equipment: neoprene or butyl rubber apron and boots, long sleeve coveralls, nearby eye wash and safety shower.

Leak and Spill Procedures: Wear protective equipment. Dike and contain large spills. Pump spill into a suitable waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into a suitable waste container. Keep material away from sewers.

Waste Disposal Method: Reuse material if possible, or otherwise neutralize with lime or soda ash before disposal. Dispose recovered material in accordance with all local, provincial or federal regulations.

Handling Procedures and Equipment: Use good industrial hygiene. Do not get into eyes, on skin or clothing. Do not inhale vapors or mists. Wash thoroughly after handling. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. Store at temperature below 30°C and keep from freezing.

Storage Requirements: Store material in a cool, dry place away from incompatibles. Keep container closed when not in use. Keep from freezing and temperatures below 30°C.

Special Shipping Information: Keep from freezing and temperatures below 30°C.

SECTION VIII – FIRST AID MEASURES

Inhalation: Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate medical help.

Skin Contact: Flush with running water for 15 minutes. If irritation persists, get immediate medical aid. Launder clothes and shoes before reuse.

Eye Contact: Flush with running water for 30 minutes. If irritation persists, get immediate medical aid.

Ingestion: DO NOT INDUCE VOMITING. Give lots of water if conscious. Get medical aid immediately.

Additional Information:

SECTION IX – PREPARATION OF M.S.D.S.

Prepared by Technical Advisory Services

Phone: (604) 946-0361

French Version Available Upon Request

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