

SCALE-OFF TILE CLEANER

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MATERIAL SAFETY DATA SHEET			
SECTION 1: PRODUCT SOURCE AND IDENTITY			
SUPPLIER'S NAME & ADDRESS Arrow Chemical Co. 2217 Border Avenue Torrance, CA 90501		PRODUCT DESCRIPTION NAME: SCALE-OFF TILE CLEANER PURPOSE: Cleans and descales vinyl and ceramics Proprietary Formula Code: ARO_SOTC	DATE OF ISSUE: JULY 8, 1996
EMERGENCY TELEPHONE NO.	800-424-9300	PRODUCT INFORMATION (BUS HOURS)	310-320-6246
SECTION 2: SHIPPING CLASSIFICATION			
PROPER SHIPPING NAME, HAZARD CLASS, UN/NA NUMBER, PACKAGING GROUP, EMERGENCY RESPONSE GUIDE NUMBER APPROPRIATE FOR NON-BULK, LAND SHIPMENT.			
Compounds, cleaning liquid.n.o.s., CLASS 8, UN1760, (Contains Phosphoric acid and Hydrochloric Acid), PG III ERG 60			
LABELS REQ'D:		CORROSIVE	
QUALIFIES FOR "CONSUMER COMMODITY" ORM-D: 172.154, 1 gallon, 66# max gross			
REPORTABLE QUANTITY INFORMATION: None			
SECTION 3: SAFETY RATINGS AND HAZARDOUS INGREDIENT INFORMATION			
REPORTING REQUIRED BY TITLE III SEC 313, 40 CFR 372 (*), 29 CFR 1910.1200 EXPOSURE LIMIT VALUES			
CAS#	313	MATERIAL OR COMPONENT	% RQ# TWA OTHER/REMARKS
7664-51-2	Yes	Phosphoric Acid	<15 5000 1mg/m3 STEL 3mg/m3
7647-01-0	Yes	Hydrochloric Acid	< 2 5000 STEL C5ppm
"C" indicates ceiling value.			
No components are listed in "THRESHOLD LIMIT VALUES AND BIOLOGICAL EXPOSURE INDICES FOR 1995-96" from ACGIH except as listed above. Components listed in TITLE III SEC 313 are indicated by "Yes" above.			
EMERGENCY OVERVIEW: Acid material. Observe safety precautions outlined herein.			
HMIS HAZARD RATINGS: HEALTH 2 FIRE 0 INSTABILITY 0 OTHER NA			
NFPA HAZARD RATINGS: HEALTH 2 FLAMMABILITY 0 REACTIVITY 0 SPECIAL NA			
HAZARD RATINGS: LEAST: 0 SLIGHT: 1 MODERATE: 2 HIGH: 3 EXTREME: 4			
THRESHOLD LIMIT VALUE: Not established on product.			
SARA	Section 302	NONE	U.S. FEDERAL REGULATIONS:
TITLE III	Section 311/312	NONE	TSCA STATUS: All ingredients listed.
	Section 313	See above	CERCLA REPORTABLE QUANTITY: NONE
SECTION 4: PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE:	Viscous red liquid	FLASH POINT deg F (CC):	None
ODOR:	Acrid	INITIAL BOILING POINT deg C:	100°C+/-
SPECIFIC GRAVITY:	>1.0	VAPOR PRESSURE 20 deg C:	NA
pH REACTION:	Acid	FREEZING POINT deg F:	NA
% PHOSPHOROUS:	4.5	SOLUBILITY IN WATER:	100%
REPRODUCTIVE IMPLICATIONS:	None		
INGREDIENT ON CANCER LISTS:	None		
Secondary usage applications: Removal of scale in bathrooms and shower stalls. Do not use on plated fixtures as the acid may remove the plating.			

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SECTION 5 - SAFE HANDLING AND STORAGE**GENERAL:**

Avoid creating mist or aerosol. Maintain good housekeeping practices.

PROTECTIVE EQUIPMENT**EYES:** Safety glasses or goggles should be worn if there is possibility of eye contact.**SKIN:** Impermeable gloves such as rubber, PVC or neoprene are recommended.**RESPIRATORY PROTECTION:** None normally required. If risk of inhalation occurs, select and use equipment according to OSHA/NIOSH guidelines for acid mists.**VENTILATION:** A well ventilated work environment is recommended. Local exhaust as needed.**OTHER:** Water source and eyewash should be located close to where the product is handled.**SECTION 6- HEALTH SAFETY DATA****EFFECTS OF CHRONIC OVER EXPOSURE:****EYES:** Can cause severe irritation.**SKIN:** Can cause irritation from acid burns.**INHALATION:** Mists may be quite irritating, and dangerous.**INGESTION:** Not a likely source of exposure. Dilute with milk or water.**SECTION 7 - PHYSICAL STABILITY AND REACTIVITY DATA****EXPLOSIVE LIMITS**

UPPER	ND	LOWER	ND
CHEMICAL STABILITY		stable	X
		unstable	

HAZARDOUS may occur**POLYMERIZATION** cannot occur X**FLASH POINT:** See Sec 4**CONDITIONS TO AVOID:** None known**HAZARDOUS DECOMPOSITION PRODUCTS:**

None known

INCOMPATIBILITY: Caustic chemicals and all metals**SECTION 8- EMERGENCY RESPONSE PROCEDURES****FIRE** **EXTINGUISHING MEDIA:** Use fire fighting media proper to primary source of fire.**UNUSUAL HAZARDS** Can form acid fumes if heated or in a fire.**FIRST AID** **EYES:** Flush with water for at least 15 min. Seek medical attention.**SKIN:** Wash exposed skin with soap and water until gone. Remove affected clothes rinse off product and wash clothes before reuse.**INHALATION:** If affected, remove individual to fresh air, get medical attention at once if there is any discomfort.**INGESTION:** Dilute by giving large amounts of water or milk. Get medical attention. Do not induce vomiting.**SPILLS** **SMALL/LARGE SPILL:** Vacuum or mop up as much as possible for use. Cleanup of spills may require personal protective equipment to prevent liquid contact and protect against acid burns. See Sec 5. Small amounts may be flushed to drain. Comply with federal, state and local regulations on reporting spills.

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