

MATERIAL SAFETY DATA SHEET

STEAM CLEANER

I. PRODUCT AND MANUFACTURER INFORMATION	
Product name	STEAM CLEANER
Proper Shipping Name (Containers: 1 gallon and larger)	Corrosive Liquid, Basic, Inorganic N.O.S., 8, UN 3266, PG II (Contains Potassium Hydroxide and Sodium Hydroxide)
Proper Shipping Name (Containers: smaller than 1 gallon)	Consumer Commodity, ORM-D
CAS number	NE
Manufacturer	Ashburn Chemical Technologies 2911 Rusk Houston, TX 77003
Emergency phone number	713-425-3000
Date of last revision	7/05/06

II. HAZARDOUS INGREDIENTS					
HAZARDOUS COMPONENT	CAS NUMBER	% Optional	OSHA PEL	ACGIH TLV	CHEMICAL AND/OR COMMON NAME(S)
Potassium Hydroxide	1310-58-3		NA	2 mg/m3	
Sodium Hydroxide	1310-73-2		2 mg/m3	2 mg/m3	

No other hazardous ingredients contained in this product

III. PHYSICAL AND CHEMICAL CHARACTERISTICS	
Boiling point @ 760 mm Hg	>215°F
Vapor pressure at 20 °C	20
Vapor density (air = 1)	>1
Solubility in water	Complete
Appearance and odor	Clear liquid, caustic scent
Specific gravity (H ₂ O = 1.0)	1.15
pH Conc.	13.5
% Volatile	>74
Evaporation rate (butyl acetate = 1)	<1

IV. FIRE AND EXPLOSION HAZARD DATA			
Combustible/Not combustible	Not combustible		
Flammable/Not flammable	Not flammable		
Pyrophoric/Not pyrophoric	Not pyrophoric		
Explosive/Not explosive	Not explosive		
Flash point (test method)	None		
Flammable limits (in Air % by volume)	NA	LEL: NA	UEL: NA
Extinguishing media	NA		
Special fire-fighting procedures or equipment	None		
Unusual fire and explosion hazards	None		

V. REACTIVITY DATA	
Material is stable/unstable	Stable.
Conditions to avoid	None Known
Incompatibility (materials to avoid)	Avoid contact with strong acids
Hazardous decomposition or by-products	None known
Hazardous polymerization will/will not occur	Will not occur.

VI. HEALTH HAZARD DATA	
Note: data applies to the concentrate. Health hazard potential is reduced at use concentrations, if applicable.	
Threshold limit value	TLV for this product not established. Refer to the hazardous materials list for TLV of individual ingredients.
Primary route(s) of entry	Inhalation, Ingestion
Known Hazards Under 29 CFR 1910.1200	
Mutagenic (genetic defects)	NONE
Reproductive	NONE
Systemic	NONE
Teratogenic (birth defects)	NONE
Carcinogen listed in:	
NTP (National Toxicology Program)	NO
IARC Monographs	NO
OSHA	NO
Signs and symptoms of exposure	
Inhalation	Vapors may be irritating to mucous membranes. Prolonged contact can cause tissue damage
Skin contact	Severe skin irritant. Prolonged contact can cause severe burns
Eye contact	Severe eye irritant. Liquid and mist can cause corneal injury and possible permanent damage
Ingestion	Extremely corrosive to the mouth and throat. May result in severe chemical burns to tissue. Severe nausea, vomiting and possible collapse.
Emergency first aid procedures	
Inhalation	Remove to fresh air. Consult a physician if symptoms persist.
Skin contact	Wash off thoroughly with soap and water. Remove contaminated clothing and launder before re-use. Consult a physician if irritation persists
Eye contact	Flush with water for 15 minutes. Seek medical attention.
Ingestion	If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Consult physician as soon as possible.
Medical conditions generally aggravated by exposure	None Known
Notes to physician	Treatment of overexposure should be directed toward the control of symptoms and the clinical condition.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE		
Steps to take if released or spilled	Contain spill. Use absorbent material. Sweep or mop up.	
Waste disposal method	Use approved treatment, transporters and disposal sites in accordance with local, state and federal laws.	
Precautions for handling and storing	Avoid prolonged or repeated skin contact. Do not get in eyes. Store at room temperature out of direct sunlight, away from heat. Protect from freezing. Keep container closed when not in use.	
Hazard ratings	NFPA	HMIS
Health	3	3
Flammability	0	0
Reactivity	0	0
Personal protection		D

VIII. CONTROL MEASURES	
Protective gloves (type and material)	Waterproof gloves recommended.
Eye protection	Wear safety glasses or goggles.
Other protective clothing or equipment	Not normally required.
Respiratory protection (specify type)	Not needed under recommended conditions.
Ventilation and conditions	
Local	Yes
Mechanical	Recommended
Other	None
Work/hygienic practices	Do not wear contaminated clothing. Wash hands prior to eating, drinking, smoking or use of restroom and when leaving work.

IX. ADDITIONAL REGULATORY INFORMATION	
SARA hazard category (Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III))	None
Toxic chemical(s) subject to the supplier notification requirements of section 313 of the Superfund Amendment and Reauthorization Act of 1986 (SARA) and the requirements of 40 CFR part 372	None
Ingredient(s) regulated under the Clean Air Act Section 112 hazardous air pollutants and subject to all reporting requirements of CERCLA (Superfund)	None

NA – not applicable NR – not reported ND – not determined NE – not established UN – unknown

The information presented in this MSDS has been compiled from sources deemed reliable. This MSDS is presented in good faith and believed to be accurate as of the effective date shown above. No warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another. It is the responsibility of the buyer to insure compliance with federal, state, provincial and local laws and regulations.