

# MATERIAL SAFETY DATA SHEET

CHEMCO INDUSTRIES, INC.

5731 Manchester Ave., St. Louis, MO 63110



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GENERAL INFORMATION # : 314-647-1888

EMERGENCY TELEPHONE # : (800) 854-4236

## I-PRODUCT IDENTIFICATION

pH Down

PRODUCT CODE: 140

CHEMICAL FORMULATION:

NFPA HAZARD IDENTIFICATION SYSTEM:

HEALTH:2

FLAMMABILITY: 0

REACTIVITY: 1

HAZARD RATING: 4- Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

## II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))

EPA 49 CFR:

SUBSTANCE	CAS #	Approx %	OSHA PEL	ACGIH TLV	302	355	375
Hydrochloric Acid	7647-01-0	15.0-25.0	ppm C	5 ppm C	Y	N	Y
Poly (oxyethylene) nonylphenol	9016-45-9	<2.00	N/E	N/E	N	N	N

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit

N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

## III - PHYSICAL DATA

BOILING POINT (C/F): N/D

MELTING POINT:

VAPOR PRESSURE (mm Hg.)Psig N/D

SPECIFIC GRAVITY (WATER = 1): 1.1

VAPOR DENSITY (AIR = 1): N/D

VOC CONTENT (% by weight): <1.00

SOLUBILITY IN WATER: Soluble

EVAPORATION RATE (Water = 1): N/D

pH: 1.00

APPEARANCE AND ODOR: Clear, light green liquid; characterisitic acidic odor.

## IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (F/(C): N/A

(TEST METHOD): Closed cup

FLAMMABLE LIMITS:

UPPER: N/D

LOWER: N/D

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Use water spray to cool fire-exposed containers. May produce toxic fumes when heated.

## V - REACTIVITY DATA

STABILITY:

Stable

INCOMPATIBILITY:

Alkaline material, metals and metal salts

CONDITIONS TO AVOID:

Do not mix with chlorine bleach, ammonia or any other cleaning chemicals. Do not spray to create mists. Do not heat to create vapors

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Thermal decomposition may produce CO, CO<sub>2</sub>, HCl and

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CI2

HAZARDOUS POLYMERIZATION: Will not occur.  
CONDITIONS TO AVOID: None.

PRODUCT NAME: pH Down

PRODUCT CODE: #0140

## VI - HEALTH AND HAZARD DATA

ROUTES OF ENTRY: INHALATION? X EYE CONTACT: X SKIN? X INGESTION? X

HEALTH HAZARDS (ACUTE & CHRONIC):

CARCINOGENICITY: NTP? IARC MONOGRAPHS? OSHA REGULATED?

### EFFECTS OF OVEREXPOSURE

**IF IN EYES:** Severe irritation, burns, destruction of tissue. May cause irreversible damage.

**IF ON SKIN:** Severe irritation, burns, destruction of tissue. May cause permanent damage.

**IF SWALLOWED:** Severe burns to mucous membranes, destruction of tissue, DANGER - May be fatal if swallowed.

**IF INHALED:** Severe irritation to upper respiratory tract, pulmonary edema, laryngeal spasms.

### EMERGENCY AND FIRST AID PROCEDURES

**IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for least 15 minutes. Obtain immediate medical attention.

**IF ON SKIN:** Remove contaminated clothing. Flush with plenty of cool water for at least 15 minutes and cover exposed area with acid neutralizing solution or moist baking soda. Obtain medical attention

**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting. Never give anything to an unconscious person.

**IF INHALED:** Remove person to fresh air. Administer artificial respiration, if breathing has stopped. Obtain medical attention.

## VII - SPILL AND LEAK PROTECTION

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate area and contain spill. Soak up spilled material with absorbent material and place in a properly marked closed container for disposal. Rinse residue with a neutralizing solution.

**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

## VIII - SPECIAL PROTECTION INFORMATION

**VENTILATION:** Local Exhaust: Recommended Mechanical: Recommended  
Special: Other:

**RESPIRATORY PROTECTION:** Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.

**PROTECTIVE GLOVES:** Acid resistant

**EYE PROTECTION:** Safety goggles and/or face shield.

**OTHER PROTECTIVE EQUIPMENT:** Protective clothing, emergency shower and eye wash station.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Corrosive material. Store in a cool, dry place away from alkaline materials and reactive chemicals. Do not mix with any other cleaning chemicals. Never add water to this product, always add this product to water, slowly stirring. Keep container tightly closed when not in use. Wash before eating, drinking or smoking.

**OTHER PRECAUTIONS:** Keep out of reach of children

### WORK/HYGIENIC PRACTICES :

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Prepared By:

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