

# MATERIAL SAFETY DATA SHEET

HMIS CODES: 

H	F	R	P
3	0	0	H

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor  
Occupational Safety and Health Administrator  
(Non-Mandatory Form)  
Form Approved OMB No. 1218-0072

IDENTITY (AS USED ON LABEL AND LIST):

**QUIK !  
HCL-RUST, LIME, CONCRETE AND SCALE REMOVER QK**

NOTE: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

## Section I

Manufacturer's Name:  
J.C. WHITLAM MANUFACTURING COMPANY

Emergency Telephone Number:  
CHEM-TEL (800) 255-3924

Address (Number, Street, City, State, and ZIP Code):  
200 WEST WALNUT STREET

Telephone Number for Information:  
(330) 334 - 2524

P.O. BOX 380

Date Prepared: January 1, 2010

WADSWORTH, OHIO 44282-0380

Signature of Preparer (optional):

## Section II - Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENTS  
(SPECIFIC CHEMICAL IDENTITY: COMMON NAME(S))

OSHA PEL

ACGIH  
TLV

OTHER LIMITS  
Recommended

% (optional)

HYDROGEN CHLORIDE [CAS#7647-01-0]

5 ppm

5 ppm

35

SHIPPING INFORMATION FOR QUART CONTAINERS:  
DEPARTMENT OF TRANSPORTATION (DOT):  
CONSUMER COMMODITY ORM-D

SHIPPING INFORMATION FOR GALLON CONTAINERS AND ALL  
FOREIGN SHIPMENTS:  
HYDROCHLORIC ACID, SOLUTION  
8,UN1789,PG11  
CORROSIVE LIQUID

## Section III - Physical/Chemical Characteristics

Boiling Point:

183°F (84°C)

Specific Gravity (H2O =1):

1.16

Vapor Pressure (mm Hg):

35

Melting Point:

318°C

Vapor Density (AIR = 1):

127

Evaporation Rate (Butyl Acetate = 1):

>1

Solubility in Water: 100%

Appearance and Odor: LIGHT YELLOW LIQUID, ACRID PUNGENT

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): WILL NOT BURN

Flammable Limits:

LEL: N/A

UEL: N/A

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Special Fire Fighting Procedures:

USE WATER SPRAY TO COOL TANKS AND CONTROL VAPORS. RUNOFF FROM FIRE CONTROL MAY CAUSE POLLUTION. NEUTRALIZE WITH CHEMICALLY ALKALINE SUBSTANCES (SUCH AS SODA ASH OR LIME) TO PREVENT CORROSION OF METALS AND FORMATION OF HYDROGEN. FOR POTENTIAL EXPOSURE TO ACID OR FUMES, WEAR FULL PROTECTIVE CLOTHING WITH HOOD AND BREATHING APPARATUS.

Unusual Fire and Explosion Hazards:

CONTACT WITH COMMON METALS MAY PRODUCE FLAMMABLE, POTENTIALLY EXPLOSIVE HYDROGEN GAS.

<b>Section V - Reactivity Data</b>	<b>QUIK ! HCL-RUST, LIME, CONCRETE AND SCALE REMOVER</b>	<b>QK</b>
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Stability:	Unstable:		Conditions to Avoid: DO NOT STORE NEAR OR MIX WITH STRONG ALKALIS SUCH AS SODIUM OR POTASSIUM.
	Stable:	X	

Incompatibility (Materials to Avoid): REACTS WITH MOST METALS, GIVING HYDROGEN; WITH OXIDIZING AGENTS, GIVING CHLORINE; WITH CYANIDES, GIVING HYDROGEN CYANIDE; WITH SULFIDES, GIVING HYDROGEN SULFIDE; AND WITH FORMALDEHYDE, GIVING BISCHLOROMETHYL ETHER (AN OSHA REGULATED CARCINOGEN).

Hazardous Decomposition or Byproducts: HEAT CAN CAUSE EVOLUTION OF GASEOUS HYDROGEN CHLORIDE.

Hazardous Polymerization:	May Occur:		Conditions to Avoid: N/A
	Will Not Occur:	X	

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation? YES	Skin? YES	Eyes? YES	Ingestion? YES
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Health Hazards (Acute and Chronic): EXCESSIVE CONTACT CAN CAUSE EYE AND SKIN BURN. INGESTION CAUSES SEVERE BURNS TO MOUTH, ESOPHAGUS AND STOMACH. VAPOR EXTREMELY IRRITATING.

Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
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Signs and Symptoms of Exposure: IRRITATION OF EYES AND SKIN. INHALATION OF FUMES MAY RESULT IN COUGHING AND CHOKING SENSATION.

Medical Conditions Generally Aggravated by Exposure: INGESTION: SEVERE DAMAGE TO INTERNAL ORGANS (ESOPHAGUS AND PYLORUS) WILL OCCUR IF SWALLOWED IN LARGE QUANTITIES. INHALATION: FUMES FROM PRODUCT CAN CAUSE INJURY TO RESPIRATORY TRACT. SEVERE EXPOSURE CAN CAUSE LUNG DAMAGE. SKIN CONTACT: PROLONGED CONTACT CAUSES BURNS, SKIN IRRITATION WITH DISCOMFORT AND RASH. EYE CONTACT: WILL CAUSE EYE BURN AND IRRITATION WITH DISCOMFORT, TEARING OR BLURRING OF VISION.

Emergency and First Aid Procedures: INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS, DILUTE BY GIVING LARGE QUANTITIES OF WATER OR MILK. DO NOT GIVE CARBONATES. CALL A PHYSICIAN IMMEDIATELY. INHALATION: IF EXCESS FUMES FROM THE PRODUCT ARE INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. SKIN CONTACT: WASH AFFECTED SKIN AREA WITH SOAPY WATER. REMOVE CONTAMINATED CLOTHING. IF BURN OR RASH APPEAR CONSULT A PHYSICIAN IMMEDIATELY. EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. CONSULT A PHYSICIAN IMMEDIATELY.

**Section VII - Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled: EVACUATE AREA; KEEP UPWIND UNTIL GAS HAS DISPERSED. IF NECESSARY TO ENTER SPILL AREA, WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING INCLUDING BOOTS. DIKE LARGE SPILL AREAS, DILUTE AND NEUTRALIZE WASHING WITH LIME OR SODA ASH. COMPLY WITH FEDERAL AND LOCAL REGULATIONS.

Waste Disposal Method: FLUSH THOROUGHLY WITH WATER APPLIED TO ENTIRE SPILL AREA. LARGE SPILL: WASHING SHOULD BE NEUTRALIZED WITH LIME/SODA ASH BEFORE DISCHARGING TO SEWER.

Precautions to Be Taken in Handling and Storing: KEEP CONTAINER TIGHTLY CLOSED, AWAY FROM HEAT, SPARKS AND FLAME. KEEP IN COOL PLACE. DO NOT MIX CYANIDES, SULFIDES OR FORMALDEHYDES. PROTECT CONTAINERS FROM DAMAGE. STORE CONTAINERS OUT OF SUN AND AWAY FROM HEAT. NEVER USE PRESSURE TO EMPTY CONTAINERS.

Other Precautions: KEEP OUT OF REACH OF CHILDREN.

**Section VIII - Control Measures**

Respiratory Protection (Specify Type): SELF-CONTAINED BREATHING APPARATUS OR MASK WITH CANISTER FOR HCL FUMES.

Ventilation:	Local Exhaust: MAINTAIN ADEQUATE VENTILATION.	Special: N/A
	Mechanical (General): N/A	Other: N/A

Protective Gloves: LONG RUBBER OR PLASTIC GLOVES	Eye Protection: CHEMICAL SAFETY GOGGLES AND FACE SHIELD
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Other Protective Clothing or Equipment: RUBBER APRON, RUBBER BOOTS, LONG SLEEVE SHIRTS.

Work/Hygienic Practices: WASH AFTER USE. WASH CONTAMINATED CLOTHING BEFORE REUSE.