

# MATERIAL SAFETY DATA SHEET

HMIS CODES:	H	F	R	P
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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):

**FLOW-AIDE SYSTEM DESCALER (FLOW)**

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:  
(330) 334 - 2524

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: November 11, 2014

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, Aqueous	5ppm	5ppm	N/A	<10

## Section III - Physical/Chemical Characteristics

Boiling Point:	213°F (101°C)	Specific Gravity (H2O =1):	1.045
Vapor Pressure (mm Hg):	30 Torr.	Melting Point:	N/A
Vapor Density (AIR = 1):	>1	Evaporation Rate (Butyl Acetate = 1):	Slow
pH:	0.5 - 0.7		

Solubility in Water: Miscible

Appearance and Odor: Yellow Liquid; Citrus

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): No flash point, extinguishes flame	Flammable Limits:	LEL: N/A	UEL: N/A
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Extinguishing Media: DOES NOT SUPPORT COMBUSTION.

Special Fire Fighting Procedures: WATER WILL CONTROL, OR CO2/DRY CHEMICALS.

Unusual Fire and Explosion Hazards: NON-COMBUSTIBLE OR EXPLOSIVE. BREATHING APPARATUS RECOMMENDED.

Section V - Reactivity Data		FLOW-AIDE SYSTEM DESCALER		FLOW
Stability:	Unstable:		X	Conditions to Avoid: EXCESSIVE HEATING
	Stable:			

Incompatibility (Materials to Avoid): STRONG CAUSTICS

Hazardous Decomposition or Byproducts: NONE

Hazardous Polymerization:	May Occur:		X	Conditions to Avoid: EXCESSIVE HEATING
	Will Not Occur:			

### Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? YES	Skin? YES	Ingestion? YES
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Health Hazards (Acute and Chronic): NONE KNOWN

Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
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Signs and Symptoms of Exposure: ADVERSE EFFECTS ON HUMAN HEALTH ARE NOT EXPECTED FROM THE FLOW-AIDE SOLUTION.

Medical Conditions Generally Aggravated by Exposure: N/A

Emergency and First Aid Procedures: INGESTION: DO NOT INDUCE VOMITING. DRINK MILK OR EGG WHITES AS DIRECTED BY PHYSICIAN. EYE CONTACT: RINSE EXCESSIVELY WITH WATER. CONTACT PHYSICIAN. SKIN CONTACT: RINSE EXCESSIVELY WITH WATER. CONTACT PHYSICIAN.

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

Steps to Be Taken in Case Material is Released or Spilled: RINSE WITH COPIOUS AMOUNTS OF WATER TO DILUTE. IF NECESSARY, SODIUM BICARBONATE MAY ALSO BE USED TO SOAK UP AND NEUTRALIZE LIQUID.

Waste Disposal Method: EXPENDED OR USED MATERIAL MAY BE DISPOSED OF DOWN SEWER WITH WATER FLUSH. MATERIAL IS BIODEGRADABLE.

Precautions to Be Taken in Handling and Storing: PRESERVE INTEGRITY OF CONTAINER. MAINTAIN TEMPERATURE BETWEEN 10°F-180°F.

Other Precautions: FLOW-AIDE IS DESIGNED TO BE USED BY ITSELF OR DILUTED WITH WATER AND WATER ONLY. SOME ADVERSE REACTIONS MAY OCCUR WITH SOME ALLOYS OF ALUMINUM, MAGNESIUM, AND/OR ZINC.

### Section VIII - Control Measures

Respiratory Protection (Specify Type): NONE

Ventilation:	Local Exhaust: N/A	Special: N/A
	Mechanical (General): RECOMMENDED	Other: N/A
Protective Gloves: NEOPRENE GLOVES	Eye Protection: CHEMICAL OR SAFETY GOGGLES	

Other Protective Clothing or Equipment: AS RECOMMENDED BY PLANT SAFETY DEPARTMENT. TO PREVENT STAINING OF CLOTHES, WEAR AN APRON.

Work/Hygienic Practices: WASH HANDS BEFORE EATING OR USING TOILET FACILITIES.