

MATERIAL SAFETY DATA SHEET

HMIS CODES:

H	F	R	P
1	0	0	B

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):
ALL PURPOSE BOILER CLEANER AND TREATMENT BT

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: January 26, 2012

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)
N/A	N/A	N/A	< 5

SODIUM NITRITE (CAS# 7632-00-0)

Section III - Physical/Chemical Characteristics

Boiling Point:	212 °F (100 °C)	Specific Gravity (H2O =1 @ 20 °C):	1.04
Vapor Pressure (mm Hg @ 20 °C):	NONE	Melting Point:	N/A
Vapor Density (AIR = 1):	NONE	Evaporation Rate (WATER = 1):	< 1
pH	8.5	Percent Volatile by Weight (%)	90
Solubility in Water:	MISCIBLE	VOC Content:	0 g/l

Appearance and Odor: CLEAR LIQUID WITH MILD ODOR

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): NONE

Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: NOT COMBUSTIBLE

Special Fire Fighting Procedures: WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT. STOP SPILL/RELEASE IF IT CAN BE DONE WITHOUT RISK. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS AND COOLING EQUIPMENT EXPOSED TO HEAT AND FLAME. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

Unusual Fire and Explosion Hazards: MAY DECOMPOSE DURING CONTACT WITH FLAMES, HEATING ELEMENTS, OR IN COMBUSTION ENGINES RELEASING IRRITATING GASES. CONTAINER MAY EXPLODE IF HEATED DUE TO RESULTING PRESSURE RISE. OXIDES OF NITROGEN MAY BE LIBERATED IN HOT FIRE.

Section V - Reactivity Data

Stability:	Unstable:		Conditions to Avoid: N/A
	Stable:	X	

Incompatibility (Materials to Avoid): THIS PRODUCT IS INCOMPATIBLE WITH: OXIDIZING AGENTS, STRONG ACIDS AND BASES.

Hazardous Decomposition or Byproducts: THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN.

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

**Section VI - Health Hazard Data
TREATMENT BT****ALL PURPOSE BOILER CLEANER AND**

Route(s) of Entry:	Inhalation? YES	Skin? YES	Ingestion? YES
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Health Hazards (Acute and Chronic):

EYE CONTACT: ONE OR MORE COMPONENTS OF THIS MATERIAL MAY BE AN EYE IRRITANT.
SKIN CONTACT: CONTINUOUS CONTACT WITH THIS MATERIAL MAY CAUSE DRYING OF SKIN. CHEMICAL ITSELF IS AN IRRITANT OR SENSITIZER. SKIN ABSORPTION: SYMPTOMS OF TOXICITY ARE ANTICIPATED BY THIS ROUTE.
INHALATION: NOT EXPECTED TO BE A HAZARD UNDER NORMAL OPERATING CONDITIONS.
INGESTION: INGESTION OF LARGE QUANTITIES MAY CAUSE THE FOLLOWING: IRRITATION OF DIGESTIVE TRACT, SIGNS OF NERVOUS SYSTEM DEPRESSION, SUCH AS HEADACHE, DROWSINESS, DIZZINESS, LOSS OF COORDINATION, FATIGUE AND NAUSEA.

Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
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Signs and Symptoms of Exposure:

IRRITATING TO EYES AND MUCOUS MEMBRANES. SKIN IRRITANT. INGESTION: IRRITATES GASTROINTESTINAL TRACT. MAY CAUSE DIARRHEA, CENTRAL NERVOUS SYSTEM DEPRESSION.

Medical Conditions Generally Aggravated by Exposure: NONE KNOWN.

Emergency and First Aid Procedures :

EYE CONTACT: MOVE PERSON AWAY FROM EXPOSURE AND INTO FRESH AIR. IF IRRITATION OR REDNESS DEVELOPS, FLUSH EYES WITH CLEAN WATER AND SEEK MEDICAL ATTENTION. FOR DIRECT CONTACT, HOLD EYELIDS APART FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED SHOES AND CLOTHING AND CLEANSE AFFECTED AREAS THOROUGHLY BY WASHING WITH MILD SOAP AND WATER. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.
INHALATION: NOT EXPECTED TO BE A HAZARD UNDER NORMAL OPERATING CONDITIONS, MOVE TO FRESH AIR.
INGESTION: IF SWALLOWED, INDUCE VOMITING AND SEEK EMERGENCY MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH.

Section VII - Precautions for Safe Handling and Use**Steps to Be Taken in Case Material is Released or Spilled:**

COLLECT FREE LIQUID. ABSORB REMAINDER WITH INERT MATERIAL. PLACE ALL MATERIAL IN APPROVED CONTAINERS. DO NOT FLUSH INTO WATERWAYS.

Waste Disposal Method: OBSERVE ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

Precautions to Be Taken in Handling and Storing:

KEEP CONTAINERS TIGHTLY CLOSED, COOL, DRY, AND AWAY FROM ALL SOURCES OF IGNITION. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION.

Other Precautions:

"EMPTY" CONTAINERS CONTAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. THOROUGHLY CLEAN, THEN RECYCLE, REUSE OR DISPOSE IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS. DO NOT PRESSURIZE, CUT, WELD, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND MAY CAUSE INJURY OR DEATH.

Section VIII - Control Measures**Respiratory Protection (Specify Type):**

THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATES EXCEED THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION II). DEPENDING ON THE AIRBORNE CONCENTRATION, USE A RESPIRATOR OR GAS MASK WITH APPROPRIATE CARTRIDGES OR CANISTERS (NIOSH APPROVED) OR SUPPLIED AIR.

Ventilation:	Local Exhaust: IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW ESTABLISHED EXPOSURE LIMITS (SEE SECTION II) ADDITIONAL VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED.	Special: N/A
	Mechanical (General): N/A	Other: N/A

Protective Gloves: THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT POSSIBLE IRRITATION.

Eye Protection: APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY IS RECOMMENDED.

Other Protective Clothing or Equipment: NONE

Work/Hygienic Practices: WASH WITH SOAP AND WATER.