

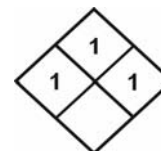
MATERIAL SAFETY DATA SHEET

PRODUCT BOILER COMPOUND



NFPA HAZARD RATINGS*

Health	1	Slight health hazard
Fire	1	Slightly combustible
Reactivity	1	Slightly reactive



SECTION 1: PRODUCT INFORMATION

Manufacturer: ADCO, Inc., 900 W. Main, Sedalia, MO 65301 (660) 826-3300

EMERGENCY TELEPHONE NUMBERS: CHEMTREC (800) 424-9300 24 HRS 7 DAYS A WEEK; ADCO (800) 821-7556 (8-5 M-F)

Intended Product Use: Water treatment for steam boilers

Synonyms: None

SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name	%	CAS #	OSHA PEL	LD 50
Potassium hydroxide (dilute solution)	10-15	1310-58-3	2 mg/m ³ Ceiling	oral: 273 mg/kg (rat)

SECTION 3: PHYSICAL DATA

Appearance: <u>Dark brown liquid</u>	Boiling Point: <u>> 200°F</u>
Odor: <u>"Fishy" amine odor</u>	Solubility in Water: <u>Complete</u>
Specific Gravity (20° C): <u>1.154</u>	Vapor Pressure (mm Hg): <u>No data</u>
pH (1% in Water): <u>11.77</u>	Vapor Density: <u>No data</u>

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method)(°F): <u>>200 (COC)</u>	Upper Flammable Limit: <u>No data</u>
Extinguishing Media: <u>Compatible with all types.</u>	Lower Flammable Limit: <u>No data</u>
Special Fire Fighting Procedures: <u>None</u>	
Unusual Fire and Explosion Hazards: <u>Exposure to high heat may release noxious vapors.</u>	

SECTION 5: REACTIVITY DATA

Stability: <u>Stable</u>	Conditions to Avoid: <u>Do not store in aluminum or brass containers.</u>
Incompatibility (materials to avoid): <u>Strong acids, oxidizers</u>	
Hazardous Decomposition Products: <u>Burning forms amines and other noxious compounds.</u>	
Hazardous Polymerization: <u>Will not occur.</u>	

SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): <u>Low</u>	
Effects of Overexposure:	
Acute: <u>May cause moderate drying or irritation if splashed into eyes or on prolonged or repeated contact with skin.</u>	
Chronic: <u>None known</u>	
Carcinogenicity: <u>None of the ingredients of this mixture have been identified as a carcinogen or probable carcinogen by ACGIH, IARC or OSHA.</u>	

*Hazard ratings and other information are based on latest available information from tests on product or ingredients of mixtures. The data and evaluations are accurate to the best of ADCO's knowledge. No guarantee or liability is expressed or implied.

EXPOSURE LIMITS 2mg/m ³ Ceiling (potassium hydroxide)	IRRITANCY OF PRODUCT Slight eye and skin	SENSITIZATION TO PRODUCT None reported	CARCINOGENICITY No components are listed by ACGIH, IARC or OSHA
TERATOGENICITY No effects reported	REPRODUCTIVE TOXICITY No effects reported	MUTAGENICITY None reported	SYNERGISTIC PRODUCTS None reported

Based on known toxicity of components. No test data available on mixture.

SECTION 7: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required when used as directed with adequate ventilation.

Ventilation: Normal industrial ventilation is adequate.

Protective Gloves: Ordinarily not needed. Use chemically resistant gloves when contact is prolonged or frequent.

Eye Protection: Use goggles or face mask if splashing is likely.

Other protection equipment ordinarily not needed. Availability of eye washes and adequate ventilation in work areas recommended.

STORAGE AND HANDLING:

Store in closed containers. Do not store in aluminum or brass containers. Do not use aluminum or copper pipes or containers in handling.

SPILL OR LEAK PROCEDURES:

Small spills - flush to sewer with water. Large spills - soak up on absorbent material and transfer to containers for disposal as nonhazardous waste.

WASTE DISPOSAL METHOD:

Nonhazardous. Flush to sewer or dispose of material and container in nonhazardous municipal landfill in compliance with all local, state and federal regulations.

RECOMMENDED PRECAUTIONARY LABELING:

CAUTION:

Splashing into eyes or prolonged or repeated contact with skin may cause moderate irritation or burns.

FIRST AID:

In case of contact, flush eyes with water for 15 minutes. Wash off of skin with soap and water. If swallowed, do NOT induce vomiting.

KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

This product is intended for professional use only by trained personnel.

SECTION 8: FIRST AID

Inhalation: No treatment necessary.

Eyes: Flush eyes for 15 minutes with water.

Skin: Wash off of skin with soap and water.

Ingestion: Do NOT induce vomiting.

IF SYMPTOMS PERSIST, SEEK MEDICAL ASSISTANCE

SECTION 9: SARA TITLE III

NOTE: This product does not contain components which are under the reporting requirements of SARA Title III, Section 313.

SECTION 10: PREPARATION DATE

This information is provided for guidance only based on information we have compiled. No guarantee of accuracy or completeness is expressed or implied.

ADCO RESEARCH DEPARTMENT

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Julie D. Jones

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