

**MATERIAL SAFETY DATA SHEET****SECTION 1 - PRODUCT SOURCE AND IDENTITY**

Supplier identity and address	Product description:	Date: Dec. 22, 2006
AS Inc 980 77th Avenue Oakland, CA 94621	Name: AS-8405 Purpose: Boiler corrosion inhibitor solution Proprietary Formula Code: GP AS8405	
Emergency phone: 800-463-9300	Product information: 800-369-8056	

**SECTION 2 - SHIPPING CLASSIFICATION**

Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number	
Not regulated	
Labels required per 49 CFR 172.101:	None
Size for "Limited quantity" per 49 CFR 173.150-4:	Not applicable
Reportable Quantity ("RQ") per 49 CFR 172.101:	None or not possible in one non-bulk package

**SECTION 3- SAFETY RATINGS AND HAZARDOUS INGREDIENT INFORMATION**

Reporting required by Title III Sec 313, 40 CFR 372, 29 CFR 1910.1200				Exposure Limit Values		
CAS#	313	Material or Component	%	RQ#	TWA	STEL
108-91-8	No	Cyclohexyl amine	3-8	None	10 ppm	

No component is listed in "Threshold Limit Values and Biological Exposure indices for 2006" from ACGIH except as noted above. Components listed in TITLE III SEC 313 (EPCRA) are indicated by "Yes" above.

Note: The purpose of this MSDS is to provide safe handling, shipping and disposal information for users of the product. It is not intended to, nor does it, provide complete or extensive toxicological data on the product or its components. Users who require this information are referred to primary suppliers of the ingredients of interest.

Emergency overview: Corrosion inhibitor for boiler and lines. Follow label directions.  
Keep out of eyes and off skin. Keep containers closed when not in use.

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Immediate	Yes	No	No	No	
Delayed	No	NA	NA	NA	

HMIS Hazard ratings: Health 2 Fire 0 Instability 0 Other B (Glasses, gloves)

NFPA 704 Hazard Ratings: Health 2 Flammability 0 Reactivity 0 Special None

Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4

Other than those listed, there are no ingredients with ACGIH exposure limits present at 1% or above, and no known carcinogens present at 0.1% or above.

Threshold limit value: Not established on product.

TOSCA Status: All ingredients listed CERCLA RQ: See Sec 2.

California Prop. 65: None Ingredients on cancer lists: None

Reproductive implications: None

**SECTION 4 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Off white liquid	Flash point deg. F (cc):	None
Odor:	Sulfurous, amine	Initial boiling point deg. C:	Not determined
Specific gravity:	>1	Vapor pressure 20 deg C:	NA
pH reaction:	pH 8 approx.	Freezing point deg. C:	NA
		Solubility in water:	complete
California Rule 102 (66):	Contains no photo chemically active materials.		

**SECTION 5 - SAFE HANDLING AND STORAGE**

General		Keep lid on containers when not in use. Wipe up spills promptly. Keep off of skin and out of eyes. Use standard industrial good practices.
Protective equipment		
Eyes	Safety glasses or goggles should be worn if there is possibility of eye contact.	
Skin	Impermeable gloves such as rubber, PVC or neoprene are recommended.	
Respiratory protection		None normally required.
Ventilation		
		No special ventilation is usually required.
Other		None

**SECTION 6- HEALTH SAFETY DATA**

Effects of acute or chronic over exposure		
Eyes	Irritating to eyes. No chronic effects known.	
Skin	Can cause irritation from repeated exposure.	
Inhalation	Vapors or mists can be irritating, cause dizziness and disorientation.	
Ingestion	Do not take internally. Not a likely source of chronic exposure.	

**SECTION 7 - PHYSICAL STABILITY AND REACTIVITY DATA**

Explosive limits		Flash point: See Sec 4
Lower ND	Upper ND	Conditions to avoid: Exposure to open air for a long period.
Stable		
Chemical stability		Hazardous decomposition products: Combustion produces oxides of carbon, sulfur, nitrogen and product fumes.
Hazardous polymerization		Incompatibility: Oxidizing agents.
Cannot occur		

**SECTION 8- EMERGENCY RESPONSE PROCEDURES**

Fire	Extinguishing media	Use equipment appropriate to main cause of fire.
	Special procedures	None
	Unusual hazards	None
First Aid	Eyes	Flush with water for at least 15 min. Seek medical attention. See Sec. 6.
	Skin	Wash exposed skin with soap and water until gone. Remove affected clothes rinse off product and wash clothes before reuse.
	Inhalation	If affected, remove individual to fresh air, get medical attention at once if there is any discomfort.
	Ingestion	Dilute by giving large amounts of milk or water. Get medical attention immediately. Do not induce vomiting.
Spills	Small / large spill	Immediately remove uninvolved personnel. Small amounts may be flushed to drain. Comply with federal, state and local regulations on reporting spills. Keep out of waterways and storm sewers.

Product as made does not qualify as an "Unlisted Hazardous Waste" for disposal situations.

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