

ARIES CHEMICAL INCORPORATED

6604 DEPOT ST., PO BOX 519
BEAVER FALLS, NEW YORK 13305

315-346-1489 FAX: 315-346-1658

Origination Date: 01-23-13

Revision Date:

3009

SECTION I - GENERAL INFORMATION

TRADE NAME:

Aries 3009

EMERGENCY PHONE NO:

INFOTRAC: (800) 535-5053

CHEMICAL NAME:

Boiler Treatment

DISTRIBUTOR'S D-U-N-S NO:

14-861-3045

HAZARDOUS MATERIAL DESCR.: UN3266, Corrosive liquid, basic, inorganic,
n.o.s., (sodium hydroxide solution), 8, II

EMERGENCY RESPONSE GUIDE#: 154

REPORTABLE QUANTITY: 1000 lbs as NaOH

SHIPPING NUMBER: UN3266

SYNONYMS:

FORMULA:

Mixture

CHEMICAL FAMILY:

Alkaline boiler treatment

MOLECULAR WEIGHT:

NA

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENTS	% BY WT.	CAS NO.	TWA	
			OSHA	ACGIH
Sodium Hydroxide	3 - 6	001310-73-2	2 mg/m ³	

HAZARD RATING	HEALTH	2	REACTIVITY	0
	FIRE	0	SPECIAL	D

SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY:
1.17 - 1.21

pH:
12 - 14

BOILING POINT:
> 212 F

SOLUBILITY IN WATER:
100%

VAPOR PRESSURE:
NA

PERCENT VOLATILE BY VOLUME:
85-90

EVAPORATION RATE:
N/A

APPEARANCE AND ODOR: Clear colorless, no appreciable odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:
N/A

FLAMMABLE LIMITS:
LEL: N/A UEL: N/A

AUTO IGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: Not normally a fire hazard. As appropriate for surrounding materials/equipment.

SPECIAL FIRE FIGHTING PROCEDURES: Water spray should be used to cool containers. Water spray may be used to knock down escaping vapor. Wear self contained breathing apparatus when fighting fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: In water solution, caustic can react with amphoteric metals (such as aluminum, copper, zinc and their alloys) generating hydrogen which is flammable and/or explosive if ignited. Thermal decomposition may release oxides of carbon, nitrogen, potassium, and sodium and phosphorous.

SECTION 5 – HEALTH HAZARD DATA

EFFECTS OF EXPOSURE: Material is corrosive. Corrosive to mucous membranes, eyes, skin, respiratory tract, and gastro intestinal tract. Treat primarily as caustic soda. Direct contact may cause permanent damage to eye, if it is not immediately irrigated. Ingestion may cause burns of the gastro intestinal tract. Repeated or prolonged exposure to dilute solution may cause irritations of mucous membranes, eyes, skin, and respiratory tract.

INGESTION: May cause gastrointestinal irritation or ulceration. If victim is alert and not convulsing, rinse mouth out and give 200-300 mL (1 cup) of water to dilute material. Do not induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head positioned to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention IMMEDIATELY.

SKIN CONTACT: Remove contaminated clothing. Short single exposure may cause skin burns. Flush skin with running water for a minimum of 20 minutes or up to 30 minutes for critical body areas. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY. Do not transport victim unless the recommended flushing period is completed or flushing can be continued during transport.

EYE CONTACT: May cause severe irritation with corneal injury and result in permanent impairment of vision, even blindness. Dusts may irritate eyes. Seek medical attention immediately. Flush eyes with copious quantities of water for 30 minutes lifting eyelids often.

INHALATION: Remove to fresh air if effects occur. Initiate artificial resuscitation and CPR if necessary. Do not use mouth-to-mouth method if victim has ingested or inhaled the substance. Oxygen administration may be beneficial in this situation but should only be administered by personnel trained in its use. Seek immediate medical attention.

CARCINOGENICITY: Not a carcinogen.

SECTION 6 – REACTIVITY DATA

STABILITY:
Stable

HAZARDOUS POLYMERIZATION:
Will not occur.

CONDITIONS TO AVOID: Avoid freezing. Avoid contact with air as product slowly loses its efficiency. Product absorbs water and carbon dioxide from the air. Keep containers closed and sealed.

MATERIALS TO AVOID: Strong oxidizing agents and Strong acids. Contact with metals such as aluminum, tin and zinc generate hydrogen which is flammable and/or explosive when ignited. Corrosive to aluminum, lead, tin, zinc, copper and alloys of these metals; brass and bronze. Product is not compatible with cloth and leather.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Products that may form due to combustion are sodium oxide, peroxides and carbonates and the oxides of carbon, phosphorous and nitrogen.

SECTION 7 - SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Only trained and properly protected personnel should be involved in spill cleanup operations. Dike or dam spill area and absorb with inert material appropriate for caustic soda. Transfer to approved containers for disposal. Acting cautiously, small accidental spills of this material should be carefully flushed with water. Dilute acid, preferably acetic acid, may be used to neutralize only the final traces of this material after flushing.

WASTE DISPOSAL METHODS: Disposal must meet all federal, state and local regulations.

ENVIRONMENTAL TOXICITY DATA: N/A

HAZARDOUS WASTE 40CFR261: N/A

HAZARDOUS WASTE NO: N/A

SECTION 8 - SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: None normally required. If misty atmospheres, use a NIOSH approved acid mist respirator. If respiratory irritation is experienced, use an approved air-purifying respirator.

EYE PROTECTION: Use chemical goggles. Full face shield in addition to goggles may be desirable to protect face. Maintain eye wash fountain and safety shower at or near work area.

PROTECTION CLOTHING: Wash contaminated clothing before reuse. Destroy contaminated shoes. Rubber apron and long sleeve shirt and trousers are recommended.

VENTILATION: Contain airborne concentrations below the exposure guideline. Good general ventilation sufficient for most operations.

OTHER: N/A

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Prevent eye and skin contact. Do not breathe dusts or mists. Avoid storage next to strong acids. Product absorbs water and CO₂ from air. Keep containers closed and sealed.

OTHER PRECAUTIONS: Emergency eye wash and safety shower should be located nearby. Do not use aluminum, copper, zinc or their alloys with this material.

SECTION 10 - REGULATORY INFORMATION

SECTION 313 - SUPPLIER NOTIFICATION

THIS PRODUCT DOES NOT CONTAIN ANY TOXIC CHEMICALS WHICH ARE REPORTABLE UNDER SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 (40 CFR 372).

WHILE ARIES CHEMICAL INC. BELIEVES THE DATA SET FORTH HEREIN IS ACCURATE AS OF THE DATE HEREOF, ARIES CHEMICAL MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR REFINANCE THEREON OF SUCH DATA, AND IS OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION, AND VERIFICATION.