

# MATERIAL SAFETY DATA SHEET

## I. PRODUCT IDENTIFICATION

Product Name: AMCO 62 CAS number: N/A - mixture  
Chemical Name & Synonyms: N/A - mixture  
Appearance: Powder with no characteristic odor.  
Use: Cast iron welding flux  
Manufacturer: Force Industries Division Tel. 610-647-3575  
EMERGENCY PHONE No. CALL CHEMTREC (800) 424-9300 \* Available 24 Hours

## II. CHEMICAL COMPOSITION

Material	SARA III	CAS Number	OSHA PEL	ACGIH TLV
Boric Acid	--	10043-35-3	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Borax	--	1330-43-4	10 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

This mixture includes a compound that contains boron oxide B<sub>2</sub>O<sub>3</sub>. When used as intended fumes of B<sub>2</sub>O<sub>3</sub> may be given off which are hazardous.

Others, if any, are non-hazardous and are claimed as trade secret.

Hazard Rating: HMIS: (H = 0 F = 0 R = 0 PE = C) NFPA: (H = 0 F = 0 R = 0)

## III. POTENTIAL HEALTH EFFECTS AND HEALTH HAZARD DATA

Target organ statement: May be harmful if swallowed; irritating to skin and eyes.  
Effects of Chronic Exposure: Coughing, CNS effects, erythema, and nausea.  
Effects of Acute Overexposure  
Swallowing: Nausea, vomiting, and diarrhea.  
Skin Absorption: Boron is not absorbed through intact skin.  
Inhalation: Irritant to respiratory system. Coughing and sneezing. Existing lung disorders will be aggravated.  
Skin Contact: Mild dermatitis or irritation. Existing skin disorders may be aggravated.  
Eye Contact: Mild irritation to eye surfaces. Existing eye disorders may be aggravated.

## IV. EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Contains boric acid. Call a physician or your Poison Control Center.  
Skin: Wash hands with soap and water to remove all residue. If rash develops, consult a physician.  
Inhalation: Remove to fresh air. If fumes, vapors, or dusts are inhaled, call a physician.  
Eyes: Flush with water for at least 15 minutes to remove all residue. Promptly get medical help.

## V. FIRE AND EXPLOSION DATA

Flashpoint (°F): N/A  
Flammable limits in air: LOWER: N/A UPPER: N/A (% by volume)  
Extinguishing media: None, product is an inherent retardant  
Special firefighting procedures: Fumes of boron oxide may be given off; use SCBA.  
Unusual fire and explosion hazards: None

## VI. REACTIVITY INFORMATION

Stability considerations/Conditions to avoid: Stable/None  
Hazardous polymerization/Conditions to avoid: Will not occur/None  
Incompatibility/Materials to avoid: Acetic anhydride, elemental potassium  
Hazardous combustion or decomposition products: Boron oxide fumes

## VII. SPILL AND LEAK RESPONSE

Steps to be taken if material is released or spilled: Contain spill, absorb, sweep-up. Remove to chemical sewer. Flush area to chemical sewer.  
Waste disposal method: Dispose of in accordance with all local, state, and federal regulations.

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## VIII. SPECIAL PROTECTION INFORMATION

Respiratory protection: If the workstation is not properly ventilated to exhaust all fumes, vapors, and dusts, use a NIOSH approved mask.

Ventilation: Maintain airflow away from user to remove all fumes, vapors, and dusts, so that the PEL is never exceeded.

Protective gloves: Chemical and oil impervious

Eye protection: Chemical tight safety goggles. Do NOT wear contact lenses.

Other protective equipment: Full protective equipment normally used in a braze/welding operation so as to prevent any contact.

## IX. STORAGE, HANDLING AND SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Wash hands thoroughly after handling to remove all residue. Store material under ambient conditions.

Other precautions: Remove and professionally wash contaminated clothing before re-use.

## X. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F @ 760 mmHg):	N/A	Specific gravity (H <sub>2</sub> O = 1 @ 72°F):	2.17
Vapor density (air = 1):	N/A	Vapor pressure:	N/A
Percent volatiles by volume:	N/A	Solubility in water:	Moderate
Evaporation rate (butyl acetate = 1):	N/A		

## XI. OPTIONAL INFORMATION

Department of Transportation: DOMESTIC GROUND

Proper shipping name: Not a regulated product

Hazard Class: N/A

ID & Packing Group No. N/A

ERG Guide Number: N/A

Toxic Substance Control Act: All components of this compound are listed within the TSCA inventory.

SARA Title III Program: RCRA. None of the components of this compound are listed in 40CFR 261.  
SARA. None of the components of this compound are listed in 40CFR 372.  
CERCLA. None of the components of this compound are listed in 40CFR 302.

Hazard Communication Program: Hazardous warnings and training requirements as mandated for corrosive material.

State Right-to-Know Programs:  
Pennsylvania: This product contains the following chemicals listed in PA Code Title 34, Hazardous Substance List: Borax

California: This product contains the following compounds subject to the reporting and labeling requirements of Proposition 65: None

NOTES: NA=Not Applicable  
F=Fire

NE=Not Established  
R=Reactivity

H=Health  
PE=Personal Equipment

While we believe all information presented herein is accurate and reliable, the data are not to be taken as a guarantee or representation of any kind for which

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Force Industries assumes legal responsibility. They are offered solely for your consideration, investigation, and verification.