

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name: Peterson No.1 CAS number: N/A - mixture
Chemical Name & Synonyms: N/A - mixture
Appearance: Light blue powder with no characteristic odor.
Use: General purpose braze/welding flux.
Manufacturer: Force Industries Division. 28 Industrial Blvd. Paoli, PA 19301. Tel. 610-647-3575
EMERGENCY PHONE No. CALL CHEMTREC (800) 424-9300 * Available 24 Hours a Day

II. CHEMICAL COMPOSITION

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

This mixture includes a compound that contains boron oxide B₂O₃. When used as intended fumes of B₂O₃ may be given off which are hazardous.

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

Hazard Rating: HMIS: (H =1 F=0 R=0 PE=C) NFPA: (H=0 F=0 R= 0)

III. POTENTIAL HEALTH EFFECTS AND HEALTH HAZARD DATA

Target organ statement: WARNING: May be harmful if swallowed; irritating to skin and eyes.
Effects of Chronic Exposure: Coughing, erythema, and nausea.
Effects of Acute Overexposure
Swallowing: Nausea, vomiting, and diarrhea.
Skin Absorption: Boron is not absorbed through skin. Mild dermatitis or irritation.
Contact: Existing skin disorders may be aggravated
Inhalation: Irritant to respiratory system. Sneezing and coughing. Existing lung 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 dust are inhaled, call a physician.
Eyes: Flush with water for at least 15 minutes to remove all residues. Promptly get medical help.

V. FIRE AND EXPLOSION DATA

Flashpoint (°F): N/A
Flammable limits in air (% by volume) LOWER: N/A UPPER: N/A
Extinguishing media: Does not support combustion. Be aware of other materials in surrounding area to determine if water, fog, foam or CO₂ may be used.
Special firefighting procedures: Fumes of boron oxide may be given off.
Unusual fire and explosion hazards: None.

VI. REACTIVITY INFORMATION

Stability considerations/Conditions to avoid: Stable/Conditions to avoid: None
Hazardous polymerization/Conditions to avoid: Will not occur/None
Incompatibility/Materials to avoid: Potassium and acetic hydride
Hazardous combustion/Decomposition products: None

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 work station is not properly ventilated to exhaust all fumes and dusts, use a NIOSH approved mask.

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

Protective gloves: Chemical and acid impervious.

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

Other protective equipment: Full protective equipment normally used in a soldering operation so as to prevent any contact. Review operations to avoid contact with hazardous gas, liquids or solids. See also:
29 CFR 1910.132 - 29 CFR 1910.140. Personal Protective Equipment
29 CFR 1910.251 - 29 CFR 1910.257. Welding, Cutting and Brazing

IX. STORAGE, HANDLING AND SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store flux at ambient conditions. Keep under extremely dry and controlled conditions. Wash thoroughly after handling to remove all residues.

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 ₂ O = 1 @ 72°F):	1.712
Percent volatiles by volume:	N/A	Bulk Density (lbs./cu.ft.)	91
Evaporation rate (butyl acetate = 1):	N/A	Solubility in water:	Moderate
VOC	N/A		

XI. OPTIONAL INFORMATION

Department of Transportation: DOMESTIC GROUND

Proper shipping name: Not a regulated product

Hazard Class: N/A

ID & Packing Group Number: 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.

Regulatory Information

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 list of carcinogens or reproductive toxicants: None

IARC: This product contains the following compounds listed or categorized as carcinogen: None

NTP: This product contains the following compounds listed or categorized as carcinogen: None

NOTES: NA=Not Applicable NE=Not Established H=Health
F=Fire R=Reactivity 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 Force Industries assumes legal responsibility. They are offered solely for your consideration, investigation, and verification.