

# SAFETY DATA SHEET

## Diamond Brazing Flux

DATE REVISED: January 1, 2016

**Product Name:** Diamond Brazing Flux: 10406

**Manufacturer:** Tifco Industries PO Box 40277 Houston, TX 77240

**Emergency Phone Number: 1-800-424-9300 (CHEMTREC) Other Information**

**Calls:** (281) 571-6000

**To the Purchaser:** This MSDS contains important environmental, health, and toxicology information for your employees who have ordered this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

**H.M.I.S. INFORMATION: HEALTH = 2 FLAMMABILITY = 0 REACTIVITY = 0**

### SECTION I -- IDENTIFICATION

**Common Name:** Anti-Borax No. 2

**Chemical Family:** High temperature brazing powder flux

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See Below

### SECTION II – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:

**Classification (CLP):** NA

**Label Elements (CLP):** NA

**Signal Word:** Danger



Irritant

Health hazard

**Precautionary Phrases:** P264, P305+P351+P338, P301+P330+P331

**Risk Phrases:** R62, R25, R36/37/38, R60/61

**Safety Phrases:** S-26, S-27, S-36/37/39, S-45

See section XVI for full text description of S and R phrases

**Other Hazards:** None if used properly

### SECTION III- COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL	H Phrases
Boric Acid	10043-35-3	30-45	10 mg/m <sup>3</sup>	H303, H360
Borax	1303-96-4	10-30	10 mg/m <sup>3</sup>	H319, H361

None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

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## SECTION IV – FIRST AID MEASURES

**Inhalation:** Remove to fresh air  
**Eyes:** Flush with water for fifteen (15) Minutes. Call physician.  
**Skin:** Wash thoroughly with soap and water.  
**Ingestion:** If patient is fully conscious, give large amounts of water. Obtain medical attention immediately.

Most Important Symptoms and effects, both acute and delayed

**Primary Routes of Entry into Body:** Fume inhalation, ingestion, skin, and eyes.

**Symptoms of Overexposure:** Salivation, coughing, choking, chills, may cause weight loss, brittle bones, anemia, and stiff joints.

**Medical Conditions Generally Aggravated by Exposure:** Any weakness of the lungs, kidneys or liver will be aggravated.

**Chemical Listed as Carcinogen or Potential Carcinogen:** None

**OSHA Permissible Exposure Limit (PEL):** 10 mg/m<sup>3</sup>

**ACGIH Threshold Limit Value (TLV):** 10 mg/m<sup>3</sup>

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## SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** None

**Flammable Limits:** Lower-NA upper-NA

**Extinguishing Media:** Not needed

**Auto Ignition Temperature:** None

**Special Fire Fighting Procedures:** Normal caution when dealing with chemicals

**Unusual Fire and Explosion Hazards:** Boric oxide fumes

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## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be taken in Case Material is spilled:** Clean up powder and flush remaining material with lots of water

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## SECTION VII - HANDLING AND STORAGE

**Storage Requirements:** Store in plastic containers in cool area. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

**Handling Precautions:** Keep containers away for excessive heat.

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## SECTION VIII - CONTROL MEASURES

**Respiratory Protection (TYPE):** NIOSH approved respirator.

**Ventilation:** Yes

**Mechanical (General):** Yes

**Local Exhaust:** Yes

**Protective Gloves:** Recommended, NIOSH approved

**Eye Protection:** Safety glasses

**Other Protective Clothing or Equipment:** Rubber apron

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## SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** NA  
**Specific Gravity (Water = 1):** NA  
**Vapor Pressure (mm Hg):** NA  
**Percent Volatile by Volume:** 0%  
**Vapor Density (Air = 1):** NA  
**Evaporation Rate (Butyl Acetate = 1):** NA  
**Melting Point:** 400°C/750°F  
**Solubility in Water:** Moderate (hot water)  
**Reactivity in Water:** None  
**Appearance and Odor:** White odorless powder

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## SECTION X - STABILITY AND REACTIVITY

**Stability:** Product is stable  
**(Conditions to Avoid):** Excessive heat  
**Incompatibility:** None  
**Hazardous Decomposition Products:** Boric oxide fumes.  
**Hazardous Polymerization:** Will not occur  
**(Conditions to Avoid):** Excessive heat

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## SECTION XI - TOXICOLOGICAL INFORMATION

### Acute Toxicity Data

- 1) **Oral:** LD-50 (rat): Not available
- 2) **Inhalation:** LC-50 (rat): Not available
- 3) **Dermal:** LD-50 (rabbit): Not available
- 4) **Skin Irritation:** (rabbit): Not available

### Chronic Toxicity Data

- 1) **Repeated Skin Application:** (rat): Not available
  - 2) **Eye Irritation:** (rabbit): Not available
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## SECTION XII - ECOLOGICAL INFORMATION

**This material has not been tested for environmental effects.**

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## SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of in accordance with EPA regulations

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## SECTION XIV- TRANSPORTATION

**D.O.T. Proper Shipping Name:** Non-Hazardous  
**Hazard Class:** NA  
**Identification Number:** NA  
**Packing Group:** NA  
**Type D.O.T Label Required Information:** NA

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## SECTION XV - REGULATORY INFORMATION

**OSHA Hazardous Chemical According to 29 CFR 1910.1200:** None

**Carcinogenicity Classification (Components Present at 0.1% or More):** Non-carcinogenic  
**International Agency for Research on Cancer (IARC):** Not listed  
**American Conference of Governmental Industrial Hygienists (ACGIH):** Not listed  
**National Toxicology Program (NTP):** Not listed  
**Occupational Safety and Health Administration (OSHA):** Not listed

**None of the components of this product are listed on the U.S. toxic substances control act inventory or otherwise comply with TSCA pre-manufacture notification requirements.**

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## SECTION XVI - OTHER INFORMATION

The labeling of this product is indicated in Section II. The full text of all abbreviations indicated by codes in the MSDS are as follows:

R25	Toxic if swallowed
R36	Irritating to eyes
R37	Irritating to respiratory system
R38	Irritating to skin
R60/61	May cause infertility/May cause harm to unborn child
R62	Possible risk of impaired fertility
S-26	In case of eye contact, rinse thoroughly and get medical attention
S-27	Take off immediately contaminated clothing
S-36/37/39	Wear suitable protective clothing, gloves, and eye/face protection
S-45	In case of accident or if feel unwell call medical advice immediately
H303	May be harmful if swallowed
H360	May damage fertility or the unborn child
H319	Causes serious eye irritation
H361	Suspected of damaging fertility
P264	Wash hands thoroughly after handling
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Further information:

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are **NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.**

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