



B50TF205 Cl. A Transfer Tape or Sheet Brazing Filler Metals

Section 1: Identification


Product Name: **B50TF205 Cl. A Transfer Tape or Sheet**
 SDS Issue Date: December 12, 2018 (supersedes SDS issued March 7, 2015)
 Synonyms: B50TF205 Cl. A T-Tape, AWS A5.8 BNi-3 or AMS 4778
 CAS Number(s): See section 3.
 Product Usage: Brazing Filler Metal Tape or Sheet

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Section 2: Hazard(s) Identification

Health – Environmental – Physical		
Respiratory and Skin Sensitization	GHS Category 1	 Danger
Target Organ Systemic Toxicity (single exposure)	GHS Category 2 (respiratory apparatus, kidney)	
Target Organ Systemic Toxicity (repeated exposure)	GHS Category 1 (respiratory apparatus)	
Carcinogenicity	GHS Category 2 (suspected of causing cancer)	
Aquatic Toxicity (chronic)	Category 4 (may cause long lasting harmful effects to aquatic life)	
This product is intended for industrial use by trained individuals. Keep away from children.		

Section 3: Composition / Information on Ingredients

Components of mixture*	CAS Number	Weight percentage**
Nickel	7440-02-0	60 – 100
Boron	7440-42-8	1 – 5
Silicon	7440-21-3	3 – 7
Acrylic Resin***	Trade Secret	0.1 – 1.0
Polyester plasticizer	Trade Secret	0.5 – 1.5
Acrylic co-polymer	Trade Secret	0.5 – 1.5

* This product is a mixture of a homogenous metallic alloy, binder and backing with or without adhesive.

** This is a general reporting range and is not a product specification.

*** Present in adhesive backed Tape only, not present in Sheet.

Exposure limits: See Section 8.



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Section 4: First Aid Measures

Exposure Route	Acute	Chronic (delayed)
Eye contact	Eye irritation. Flush with water for 15 minutes or until all particles are removed.	If irritation persists seek medical attention.
Skin contact	Itching, irritation or rash. Remove contaminated clothing. Wash skin with mild soap and water.	If irritation or rash persists seek medical attention.
Inhalation	Difficulty breathing, coughing, metal fume fever. Remove exposed person to fresh air. If not breathing administer CPR.	If symptoms persist seek medical attention.
Ingestion	Rinse mouth. If large amount, induce vomiting. Seek medical advice.	Seek medical attention.

Never give anything by mouth to an unconscious person. Treat symptomatically and supportively.

Section 5: Firefighting Measures

Suitable Extinguishing Media: Material is not readily combustible. Do not use water on metal fires, use dry chemical, dry sand or carbon dioxide to smother fire.

Specific Hazards during a Fire: Material may break down in fire and may produce toxic decomposition products associated with ingredients. Extreme oxidizing conditions may cause formation of metal oxides. These oxides may be carcinogens.

Protective Equipment: SCBA and full protective gear is recommended for fire fighting.

Section 6: Accidental Release Measures

- Stay out of spill, floor may be slippery.
- Do not create airborne dust.
- Do not allow spill to enter floor drains or storm drains.
- Wear PPE: Respirator and Safety Goggles.
- Pick up or scoop up any pieces of spilled transfer tape. Transfer into disposal container(s). Dispose by recycling.

Section 7: Handling and Storage

- General and/or point ventilation system with dust collection is recommended to ensure exposure do airborne dust is maintained below allowable exposure limits.
- Wear PPE such as work gloves (or vinyl/latex gloves), safety glasses/goggles. Respiratory protection is recommended, but is required only when exposure limits are be exceeded.
- Wash hands after use before eating or smoking.
- Do not eat or smoke in area where material is being used.
- Store in closed container in a cool place to maximize shelf life. Do not allow to freeze.
- Shelf life may vary depending on storage conditions.

Section 8: Exposure Controls / Personal Protection

Exposure Limits:

Components of mixture	CAS Number	OSHA PEL	ACGIH TLV
Nickel	7440-02-0	1.0 mg/m ³	1.5 mg/m ³
Boron	7440-42-8	15 mg/m ³ (5 mg/m ³ respirable)	10 mg/m ³ as boron oxide
Silicon	7440-21-3	15 mg/m ³ (5 mg/m ³ respirable)	Not listed
Acrylic resin	Trade Secret	400 ppm*	400 ppm*
Polyester plasticizer	Trade Secret	Not listed	Not listed
Acrylic co-polymer	Trade Secret	Not listed	Not listed

*As Ethyl acetate

Engineering Controls:

- Local exhaust ventilation may be necessary to control air contaminants to their exposure limits.
- Provide mechanical ventilation for confined spaces or if method of use warrants.

Personal Protective Equipment:

- Gloves – work gloves or non-permeable gloves such as vinyl or latex.
- Eyes – safety glasses/goggles or face shield.
- Clothing – Cover-all, lab coat or normal work clothing.
- Respirator – NIOSH respirator with organic vapor cartridges and HEPA filters or equivalent alternative is recommended for up to 10 times the exposure limits.

Section 9: Physical and Chemical Properties

Physical State	Dark grey sheet or tape with release backing and liner
Odor	None
Odor Threshold	Not available
PH	Not applicable
Melting Point / Freezing Point	>1500°F (>815°C)
Boiling Point	>3000°F (>1648°C)
Flash Point	None
Evaporation Rate (butyl acetate =1)	Not applicable
Flammability	Not applicable
LFL (LEL) lower flammability (explosive) limit	Not applicable
UFL (UEL) upper flammability (explosive) limit	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Specific Gravity	~3.5 g/cc
Solubility	Not water soluble
Partition Coefficient (n-octanol/water)	Not available
Autoignition Temperature	Not available
Decomposition Temperature	Not available
% VOC's	<10% depending on thickness



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Section 10: Stability and Reactivity

- **Chemical Stability:** This material is stable.
- **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- **Conditions to Avoid:** None
- **Incompatible Materials:** Strong acids and/or oxidizers.
- **Hazardous Decomposition Products:** Intense heat may produce carbon monoxide and/or carbon dioxide and oxidizing conditions may produce oxides of the ingredients shown in Section 3. Oxides of these ingredients may be carcinogenic.

Section 11: Toxicological Information

Likely Routes of Exposure: Skin contact, inhalation of dust.

Skin Contact: May cause sensitivity, dermatitis or allergic reaction.
Contact toxicity data not available. GHS Category 1

Inhalation of Dust: Prolonged inhalation of dust may cause pulmonary irritation, asthma, coughing, shortness of breath.

Ingestion of Tape or Sheet is an unlikely route of exposure.

Ingredient Name	Oral Toxicity (LD50)	Inhalation Toxicity (LC50)
Nickel (metallic)	Oral rat LDLo 5,000 mg/kg	*
Boron	Oral rat 650 mg/kg	*
Silicon	Oral rat 3,160 mg/kg	*
Acrylic resin	Oral rat > 5,600 mg/kg	Rat 6 h >16,000 ppm
Polyester plasticizer	*	*
Acrylic co-polymer	*	*

*Toxicity data not available.

Carcinogenicity: GHS Category 2

Ingredient Name	NTP Status		IARC Category	OSHA	CA Prop. 65*
	Known	Anticipated			
Nickel (metallic)	No	Yes	2B	No	Yes
Boron	No	No	None	No	No
Silicon	No	No	None	No	No
Acrylic resin	No	No	None	No	No
Polyester plasticizer	No	No	None	No	No
Acrylic co-polymer	No	No	None	No	No

*This product contains a chemical known to the State of California to cause cancer.

Section 12: Ecological Information

- **Aquatic Toxicity:** Acute - None, Chronic - GHS Category 4

Section 13: Disposal Consideration

- Material should be recycled to reclaim scrap metal value.
- If recycling is not possible dispose of in accordance with local, state, and federal regulations for industrial wastes of this form.

Section 14: Transport Information

DOT Classification	Not regulated
UN Identification Number	Not regulated
DOT Shipping Description	Not applicable


Section 15: Regulatory Information

Toxic Substances Control Act (TSCA)	All ingredients are listed on the TSCA inventory of chemical substances.
Superfund Amendments & Reauthorization Act (SARA)	This product contains Nickel
Resource Conservation & Recovery Act (RCRA)	This material is not a hazardous waste.
RoHS & REACH	None

Hazard Codification & Labeling Requirements

- H317 – May cause an allergic skin reaction (nickel).
- H351 – Suspected of causing cancer (nickel).
- H371 – Target organ (acute), respiratory apparatus, kidney.
- H372 – Target organ (chronic), respiratory apparatus.

Section 16: Other Information

NFPA Numbers (estimated)	Health: 2	Flammability: 0	Reactivity: 0
WHMIS Category: Class D, Division 2: Nickel			
			

The information supplied herein follows the guidelines of WHMIS, GHS and OSHA Hazard Communication Standard 29 CFR 1910.1200, and to the best of our knowledge, is accurate and complete. The recommended hygiene and handling practices are believed to be appropriate for the use of this material. However, it is up to the end user to review this information and establish their own procedures and guidelines, based upon their particular application(s). Aimtek assumes no responsibility for damage or injury resulting from the end use of this product.