

### COMPANY INFORMATION

**COMPANY NAME:** ORTHO SPECIALTIES  
**COMPANY ADDRESS:** 3820 OHIO AVE - SUITE 15  
 ST. CHARLES, IL 60174  
**COMPANY PHONE:** 630-443-0225  
**COMPANY FAX:** 630-443-0224  
**COMPANY WEB ADDRESS:** www.orthospecialties.com

### 1 – PRODUCT IDENTIFICATION

**TRADE NAME:** AMS 5355  
**PRODUCT CLASS:** Iron Base Alloy  
**PRODUCT USE:** Orthodontic Bracket Material

### 2–HAZARDOUS INGREDIENTS

Ingredient	CAS #	Nominal Chemistry Percent	TLV Mg/m3	PEL Mg/m3
Fe Iron	1309-37-1	60	5	10
** Cr Chromium	7440-47-3	18	0.5	1
** Ni Nickel	7440-02-0	14	1	1
Cu Copper	7440-50-8	2.0	Fume 0.2 Dust & Mist 1	0.1

\*\* Has been recognized as a suspect carcinogen by NTP and IARC.

### 3–PHYSICAL DATA

**Boiling Point):** N/A

**Vapor Pressure (mm Hg.):** N/A

**Vapor Density (Air = 1):** N/A

**Solubility in Water:** Insoluble

**Appearance and Odor:** Metallic gray in color – no odor.

**Specific Gravity (H<sub>2</sub>O=1):** Approx. 8

**Percent Volatile by Volume:** N/A

**Evaporation Rate:** N/A

**Melting Point (°F):** Approx. 2700°F

### 4–FIRE AND EXPLOSION DATA

**Flash Point (oF):** N/A

**Flammable Limits:** N/A

**Extinguishing Media:** Use dry powder extinguishing agent.

**Fire and Explosion Hazard:** 1) Metal powder dispersed in air may cause fire and explosion. 2) Molten metals can ignite combustibles. 3) Good house-keeping must be maintained.

### 5–HEALTH HAZARD DATA

**Primary Routes of Entry:**  
 Inhalation of dust or fume.

### 17-4 PH STAINLESS STEEL BRACKET MATERIAL

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Under normal conditions, exposure to cast ingots presents few health hazards in itself. Thermal cutting and melting of ingots may produce fumes containing the component elements and breathing those fumes may present potentially significant health hazards. Extended (several years) exposure to iron dust or fume may result in signs of pneumoconiosis (i.e. siderosis). Physical examination of those exposed to iron dust have not indicated any disability.

**Emergency and First Aid Procedures:** If irritation occurs, flush eyes, wash skin, remove to fresh air, as applicable. Contact physician.

### 6–REACTIVITY DATA

Cast ingot is stable at ordinary temperatures, however, caution should be taken with acids, bases, and oxidizers. Molten metal will react violently with water.

### 7–SPILL AND LEAK PROCEDURES

Solid ingot material will be recycled. Residue from cutting or grinding should be swept or vacuumed and placed in suitable containers for disposal by local, state, or federal waste disposal regulations.

### 8–SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** When exposure limits are exceeded, use proper, approved respirator.

**Ventilation:** Use a local exhaust when cutting, grinding, welding, or melting.

**Eye Protection and Protective Clothing:** Should be used when cutting, grinding, welding, or melting.

### 9–SPECIAL PRECAUTIONS

Use good housekeeping practices to prevent accumulations of dust and to keep airborne dust concentrations at a minimum. Avoid breathing dust or fumes. PEL/TLV exposures should be kept below recommendations by OSHA and ACGIH to insure proper health protection of worker.

### 10–SARA SECTION 313 SUPPLIERS NOTIFICATION

This product may contain the following chemicals which are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372: Aluminum; Manganese; Chromium; Nickel; Cobalt; Vanadium; Copper.

Refer to the Hazardous Ingredients Section of this MSDS for the appropriate CAS numbers and percent by weight.

### 11–DISCLAIMER

Although the information and recommendations in this data sheet are to the best of our knowledge correct, it is recommended that you make your own determination of the material's suitability for your purpose before you use it. The information contained in this data sheet has been reproduced from the manufacturer's data; the accuracy of this information is the responsibility of the manufacturer. ODP accepts no responsibility for damage of any nature resulting from the use of, or the reliance upon, this data sheet.

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### 1 – PRODUCT IDENTIFICATION

**Elmer's Painters-Water Based**

### 2 – COMPOSITION INFORMATION ON INGREDIENTS

COMPONENT: DIPROPYLENE GLYCOL  
METHYL ETHER CAS NUMBER: 34590-94-8  
PERCENTAGE: <=2.3  
COMPONENT: WATER CAS NUMBER: 7732-18-5  
PERCENTAGE: >=97.7

### 3 – HAZARDOUS IDENTIFICATION

NFPA RATINGS (SCALE 0-4):  
HEALTH=2 FIRE=1 REACTIVITY=0

EMERGENCY OVERVIEW:  
PHYSICAL FORM: liquid  
ODOR: aromatic odor

MAJOR HEALTH HAZARDS: respiratory tract irritation, central nervous system depression

POTENTIAL HEALTH EFFECTS:  
INHALATION:  
SHORT TERM EXPOSURE: irritation, headache, dizziness, drowsiness, loss of coordination .  
LONG TERM EXPOSURE: headache, dizziness, drowsiness, loss of coordination

SKIN CONTACT:  
SHORT TERM EXPOSURE: absorption may occur, headache, dizziness, drowsiness, loss of coordination  
LONG TERM EXPOSURE: irritation, kidney damage

EYE CONTACT:  
SHORT TERM EXPOSURE: irritation  
LONG TERM EXPOSURE: irritation

INGESTION:  
SHORT TERM EXPOSURE: headache, drowsiness, dizziness, loss of coordination  
LONG TERM EXPOSURE: no information on significant adverse effects

### 4 – FIRST AID MEASURES

**INHALATION:**  
If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

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<b>DOCUMENT NUMBER:</b>	<b>SDS104</b>
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<b>MATERIAL TYPE:</b>	<b>Dipropylene Glycol Methyl Ether</b>

#### SKIN CONTACT:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

#### EYE CONTACT:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

#### INGESTION:

If a large amount is swallowed, get medical attention.

#### NOTE TO PHYSICIAN:

For inhalation, consider oxygen.

### 5 – FIRE FIGHTING MEASURES

#### FIRE AND EXPLOSION HAZARDS:

Slight fire hazard.

#### EXTINGUISHING MEDIA:

carbon dioxide, regular dry chemical, regular foam, water

#### FIRE FIGHTING:

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

FLASH POINT: Not applicable

#### HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition products or combustion: oxides of carbon, oxides of nitrogen

### 6– ACCIDENTAL RELEASE MEASURES

#### OCCUPATIONAL RELEASE:

Stop leak if possible without personal risk. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

### 7 – HANDLING & STORAGE

**STORAGE:** Store and handle in accordance with all current regulations and standards. Protect from freezing. See original container for storage recommendations. Keep separated from incompatible substances.

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**8- EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMITS:**  
 DIPROPYLENE GLYCOL METHYL ETHER:  
 100 ppm (600 mg/m<sup>3</sup>) OSHA TWA (skin)  
 150 ppm (900 mg/m<sup>3</sup>) OSHA STEL (vacated by 58 FR 35338, June 30, 1993)  
 100 ppm ACGIH TWA (skin)  
 150 ppm ACGIH STEL (skin)  
 100 ppm (600 mg/m<sup>3</sup>) NIOSH recommended  
 TWA 10 hour(s) (skin)  
 150 ppm (900 mg/m<sup>3</sup>) NIOSH recommended  
 STEL (skin)

**VENTILATION:** Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**EYE PROTECTION:** Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**CLOTHING:** Wear appropriate chemical resistant clothing.

**GLOVES:** Wear appropriate chemical resistant gloves.

**PROTECTIVE MATERIAL TYPES:** protective skin cream

**RESPIRATOR:** Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any chemical cartridge respirator with organic vapor cartridge(s).

Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).

Any air-purifying respirator with a full facepiece and an organic vapor canister.

For Unknown Concentrations or Immediately

Dangerous to Life or Health -  
 Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** liquid  
**ODOR:** aromatic odor  
**BOILING POINT:** 212-473 F (100-245 C)  
**FREEZING POINT:** <32 F (><0 C)>**DECOMPOSITION POINT:** 351 F (177 C)  
**VAPOR PRESSURE:** 17 mmHg  
**VAPOR DENSITY (air=1):** <1  
**SPECIFIC GRAVITY (water=1):** 1.06-1.38  
**WATER SOLUBILITY:** dilutable  
**PH:** Not available  
**VOLATILITY:** Not available  
**ODOR THRESHOLD:** Not available  
**EVAPORATION RATE:** <1 (butyl acetate=1)>**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not available

**10 - STABILITY AND REACTIBILITY**

**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**INCOMPATIBILITIES:** oxidizing materials

**HAZARDOUS DECOMPOSITION:** Thermal decomposition products or combustion: oxides of carbon, oxides of nitrogen

**POLYMERIZATION:** Will not polymerize.

**11 - TOXICOLOGICAL INFORMATION**

**DIPROPYLENE GLYCOL METHYL ETHER:**  
**IRRITATION DATA:** 8 mg eyes-human mild; 500 mg open skin-rabbit mild; 500 mg/24 hour(s) eyes-rabbit mild

**TOXICITY DATA:** 10 ml/kg skin-rabbit LD50; 5.5 ml/kg oral-rat LD50

**LOCAL EFFECTS:** Irritant: inhalation

**ACUTE TOXICITY LEVEL:** Slightly Toxic: dermal absorption, ingestion

**TARGET ORGANS:** central nervous system

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** liver disorders, respiratory disorders

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**12 – ECOLOGICAL INFORMATION**

Not available

**13 – DISPOSAL CONSIDERATIONS**

Dispose in accordance with all applicable regulations.

**14 – TRANSPORT INFORMATION**

U.S. DEPARTMENT OF TRANSPORTATION:  
No classification assigned.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: No classification assigned.

**15 – REGULATORY INFORMATION**

U.S. REGULATIONS:  
CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30): Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40): Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):  
 ACUTE: Yes  
 CHRONIC: No  
 FIRE: No  
 REACTIVE: No  
 SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65):  
Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119):  
Not regulated.

STATE REGULATIONS:  
California Proposition 65: Not regulated.

CANADIAN REGULATIONS:  
WHMIS CLASSIFICATION: Not determined.

NATIONAL INVENTORY STATUS:  
U.S. INVENTORY (TSCA): All the components of this substance are listed on or are exempt from the inventory.

TSCA 12(b) EXPORT NOTIFICATION:  
DIPROPYLENE GLYCOL METHYL ETHER  
CAS NUMBER: 34590-94-8  
SECTION 4

CANADA INVENTORY (DSL/NDL):  
Not determined.

**16 – OTHER INFORMATION**

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## 1 – PRODUCT IDENTIFICATION

Product: Alloy 18-550  
Product Code: 18-550  
Chemical Family: Precious metal brazing alloy  
Chemical Formula: Alloy of silver, palladium, copper, and nickel.

**WARNING:** This product contains a chemical(s) known to the State of California to cause cancer.

## 2–HAZARDOUS CHEMICAL COMPONENTS

### Component – Copper:

CAS Number: 7440-50-8  
OSHA PELs: 0.1 mg/m<sup>3</sup> (fume). 1 mg/m<sup>3</sup> TWA (dusts and mists)  
Percent of Mixture: 29.0 to 31.0  
ACGIH TLVs: 0.2 mg/m<sup>3</sup> TWA (fume); 1 mg/m<sup>3</sup> TWA (dusts and mists)

### Component – Nickel:

CAS Number: 7440-02-0  
OSHA PEL: 1 mg/m<sup>3</sup> TWA  
Percent of Mixture: 4.5 to 5.5  
ACGIH TLV: 1 mg/m<sup>3</sup> TWA

### Component – Palladium:

CAS Number: 7440-05-3  
No OSHA PEL(s) or ACGIH TLV(s)  
Percent of Mixture: 9.0 to 11.0

### Component: Silver:

CAS Number: 7440-22-4  
OSHA PEL: 0.01 mg/m<sup>3</sup> TWA  
Percent of Mixture: 54.0 to 56.0  
ACGIH TLV: 0.1 mg/m<sup>3</sup> TWA (metal)

## 3–PHYSICAL DATA

Vapor Pressure: Not applicable  
Vapor Density (Air=1): Not applicable  
Solubility in Water: Insoluble  
Percent Volatiles: Not applicable  
Appearance: Odorless white metal in form of wire, rod, strip, grain, or atomized powder.

## 4–FIRE FIGHTING AND EXPLOSION DATA

### Fire and Explosion Hazards:

This product may react vigorously or ignite when exposed to incompatible materials (see Section #6). If present in a fire or explosion, it may emit fumes of the constituent metals and/or metal oxides.

Extinguishing Media: Use dry chemical. Do not use water.

## ALLOY 18-550 - BRAZE FOR BASES

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<b>NUMBER OF PAGES:</b>	<b>2</b>

### Special Fire Fighting Instructions:

If fighting a fire in which this product is present, wear a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

## 5–EXPOSURE EFFECTS AND FIRST AID

Route of Exposure - Inhalation: Inhalation of the components of this product is not known to present a significant risk to health when used according to instructions and with appropriate protective measures (see Section 8). Inhalation of components has been reported to cause one or more of the following symptoms and/or effects upon excessively high or prolonged exposure:

- SILVER: Chronic exposure may produce argyria, a permanent blue-gray discoloration of the skin, eyes, mucous membranes, and respiratory tract.
- COPPER: Acute exposure may cause respiratory tract irritation, fever, muscle ache, chills, cough, weakness, and a metallic taste. Chronic exposure may damage the liver, kidney, spleen, pancreas, and brain.
- NICKEL: Acute exposure to nickel may cause headache, nausea, vertigo, asthma, and pulmonary edema. Chronic exposure may increase the risk of cancer to the nasopharynx, lungs, prostate, and kidney.
- PALLADIUM: No significant acute or chronic effects are known from inhalation exposure to palladium metal.

First Aid – Inhalation: If signs and symptoms of toxicity are observed, remove subject from area, administer oxygen, and seek medical attention. Keep the subject warm and at rest. Perform artificial respiration if breathing has stopped.

Route of Exposure – Skin: Skin contact with this product, particularly in finely-divided forms, may cause irritation, discoloration, and /or allergic reaction.

First Aid – Skin: Remove contaminated clothing. Wash affected area with large quantities of water for at least five minutes. Seek medical attention if necessary.

Route of Exposure – Eyes: Eye contact with finely-divided forms of the product may produce localized irritation, argyria, and/or conjunctivitis.

First Aid – Eyes: Flush affected areas with water for at least fifteen minutes. Seek medical assistance if necessary.

Route of Exposure – Ingestion: Ingestion of this product in finely-divided forms may cause gastrointestinal irritation, abdominal pain, and cramps. Long-term chronic ingestion may damage the liver, kidneys, and musculoskeletal and central nervous systems.

First Aid – Ingestion: If subject is conscious, induce vomiting. If unconscious or convulsive, seek immediate medical assistance.

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#### Miscellaneous Toxicological Information:

**Carcinogenicity:** Nickel is classified as a potential human carcinogen by the following organizations (with respective subclassifications): (1) IARC (Group 2B); NTP (Group 2B). None of the other components of this product are classified as potential or demonstrated carcinogens by the IARC, NTP, or OSHA.

**Genetic/Reproductive Effects:** Nickel has produced fetotoxic and teratogenic effects in animal studies, and mutagenic responses in mammalian cell cultures.

**Health Conditions Aggravated by Exposure:** Pre-existing pulmonary diseases (e.g., bronchitis, asthma) may be aggravated by inhalation exposure, particularly as fume. Chronic exposure by inhalation and/or ingestion may aggravate pre-existing diseases of the liver, kidneys, gastrointestinal system, and nervous system.

### 6-REACTIVITY AND POLYMERIZATION

**Conditions to Avoid (Stability):** Stable at room temperature. Silver and copper can form unstable acetylides upon contact with acetylene gas.

**Incompatible Materials:** Strong oxidizers; Se; Te; Mg; chlorates; NH<sub>3</sub>; HNO<sub>3</sub>; azides, ethanol; ethylene imine; C<sub>1</sub>F<sub>3</sub>; inorganic and organic peroxides; peroxyformic acid; chlorine and fluorine; permonosulfuric acid; CrO<sub>3</sub>; Mn and Ca chlorides; CS<sub>2</sub>; hydrazine mononitrate; nitrobenzene; Fe(CO)<sub>5</sub>; seleninyl bromide.

**Hazardous Decomposition Products:** Heating to elevated temperatures may liberate metal/metal oxide fume. Hazardous polymerization will not occur.

### 7-SPILL, LEAK, & DISPOSAL PROCEDURES

**Steps to be Taken in the Event of Spills, Leaks, or Release:** If a finely-divided form of product is spilled, clean up spillage so as to minimize dispersion of dust. Wet sweeping or vacuuming using HEPA filtration are recommended.

**Waste Disposal Methods:** Consult the manufacturer for disposition of unused or unusable product.

#### SARA Title III Notifications and Information:

**SARA Title III Hazard Classes:** Acute Health Hazard; Chronic Health Hazard.

**SARA Title III – Section 313 Supplier Notification:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

CAS#	Chemical Name	Percent of Mixture
7440-50-8	Copper	29.0 - 31.0
7440-02-0	Nickel	4.5 - 5.5
7440-22-4	Silver	54.0 - 56.0

This information must be included on all MSDS that are copied and distributed for this material.

### ALLOY 18-550 - BRAZE FOR BASES

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<b>NUMBER OF PAGES:</b>	<b>2</b>

### 8-SPECIAL PROTECTIVE MEASURES

**Ventilation:** Use appropriate ventilation (e.g., dilution, local exhaust) adequate to maintain concentrations of all components and their decomposition byproducts to within their respective OSHA PELs or other applicable standards.

**Eye Protection:** Wear eye protection (safety glasses, goggles) adequate to prevent eye contact with finely-divided forms of product and eye injury from the hazards of brazing. Plastic-frame spectacles with side shields and filter lenses (shade #3 or #4) are recommended.

**Skin Protection:** Wear appropriate protective gloves and clothing to prevent skin injuries from the hazards of brazing and/or for prolonged or repeated contact with finely-divided forms of product. Avoid flammable fabrics.

**Respiratory Protection:** If an exposure level exceeds an OSHA PEL(s) or other applicable standard, use a NIOSH-approved respirator having a configuration (class, type of facepiece, filter media, assigned protection factor, etc.) appropriate to the concentration of the contaminant(s) generated. For guidance on selection and use of respiratory protection, consult American National Standard Z88.2. (ANSI, New York, NY 10036 USA).

**Work/Hygienic Practices:** To avoid ingestion, wash hands and face before eating, drinking, or using cosmetics or tobacco.

### 9-SPECIAL PRECAUTIONS – STORAGE & HANDLING

**Storage & Handling Conditions:** Do not store in proximity to incompatible materials (see Section #6)

### 10-SHIPPING INFORMATION

**Hazard Class:** Shipment not controlled by USDOT/IATA/ICAO/IMO regulations.

### 11-DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).