

420-820 & 420-870

GSM METALS, INC

40 Kenney Drive
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Tel: (401)438-7092
Fax:(401) 438-6968

SAFETY DATA SHEET

1) PRODUCT IDENTIFICATION

Product Name: BRAZE 560/ BAG 7-X-EASY- GSM Alloy No.56

Alloy contains Silver, Copper,Zinc and Tin

Product is supplied as Mill Products in the form of wire, strip and sheet and in other forms when required

Primary use of the product: This is a Silver base brazing alloy and it is used for joining of metals.

2) HAZARD IDENTIFICATION

Note: Mill products supplied by us are not considered hazardous. In use, the alloy is melted.

Appropriate ventillation and capture systems as well as personal protective gears should be provided.

Primary Routes (s) of Entry

Ingestion; inhalation

Eye Hazards

Eye contact with the products in finely-divided forms may cause irritation.Rinse opened eye for several minutes under running water and consult the physician

Skin Hazards

Skin contact may cause irritation. If irritation happens, immeiately wash with water and soap. Rinse rinse fully. If irritation continues, consult the physiician.

Ingestion Hazards

Ingestion of these products in finely-divided forms may cause nausea, vomiting, and gastrointestinal irritation.If needed consult the physician,

Inhalation Hazards

Prolonged exposure to metallic fumes and particles should be avoided via ventillation, capture system and personnel protective gears as mentioned above.

Silver Chronic exposure via inhalation may cause argyria.

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.

3) COMPOSITION/INGREDIENTS

<u>INGREDIENTS</u>	<u>%</u>	<u>CAS #</u>
(a) Silver	55.0-57.0	7440-22-4
(b) Copper	21.0-23.0	7440-50-8
(c) Zinc	15.0-19.0	7440-66-6
(d) Tin	4.5-5.5	7440-31-5

4) FIRST-AID MEASURES

Eye Flush eyes with water for at least 15 minutes. Seek medical assistance if irritation continues.

Skin In case of contact, immediately flush skin surface with plenty of water.
Remove contaminated clothing. Wash affected area with large quantities of water for at least five minutes. Seek medical attention if necessary. Launder or dry-clean clothing before reuse.

Ingestion If subject is conscious, induce vomiting if directed by medical personnel. If unconscious or convulsive, seek immediate medical assistance.

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.

5) FIGHTING FIRE MEASURES

As shipped, these products do not present fire or explosion hazard

Flash Point: N/A ° F N/A ° C

Autoignition Point: N/A ° F N/A ° C

Flammability Class: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Fire and Explosion Hazards

In finely-divided form, these products may ignite when exposed to flame or by reaction with incompatible materials (see Section #10). If present in a fire or explosion, they may emit fumes of the constituent metals or metal oxides.

Extinguishing Media

Use dry chemical. Do not use water.

Fire Fighting instructions

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

6) ACCIDENTAL RELEASE MEASURES

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.

"Clean up personnel are recommended to wear protection against inhalation of dust and fine particles "

As the product contain valuable precious metal, disposal may involve refining to recover precious metal. Dispose of any nonsalvageable material as per federal, state and local regulations.

7) HANDLING AND STORAGE

No special handling precautions are required.

Do not store in proximity to incompatible materials (see Section #10)

"No hazardous polymerization will occur"

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Use appropriate ventilation (e.g., dilution, local exhaust) adequate to maintain concentrations of all components to within their applicable standards.

Eye/Face Protection

Wear eye protection adequate to prevent eye contact with finely-divided product and eye injury if products are used with a flame. 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 injury if these products are used with a flame and/or for prolonged or repeated contact with finely-divided forms of product. Avoid flammable fabrics.

Respiratory Protection

If an exposure level exceeds an applicable exposure standard, use a NIOSH approved respirator having a configuration (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)

Ingredient (s) - Exposure Limits

Silver ACGIH TLVs: 0.1mg/m³ TWA (metal)
 OSHA PELs: 0.1mg/m³ TWA

Copper ACGIH TLVs: 0.2mg/m³ TWA(fume); 1mg/m³ TWA (dusts and mists)
 OSHA PELs: 0.1mg/n

Zinc ACGIH TLV: 5.0mg/m³

Tin ACIGH TLVs: 2mg/m3 TWA
OSHA PELs: 2mg/m3 TWA

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Odorless light yellow color in the form of wire and strip etc shapes.

Chemical Type: Mixture (Alloy)

Physical State: Solid

Melting Point: 618 C (1145 F)

Specific Gravity: 9,4

Solubility: Insoluble

10) STABILITY AND REACTIVITY

Stability: Stable

Avoid storing in the vicinity of oxidizing agents such as common acids and chemical like ammonia.
Heating to elevated temperatures may liberate metal/metal oxide fumes.

11) TOXICOLOGICAL INFORMATION

Chronic/Carcinogenicity

No Data available on chronic effects, acute toxicity, chronic toxicity of the metals present in the alloy.

When used and handled according to specifications, the product does not exhibit harmful effects as per available literature

12) ECOLOGICAL INFORMATION

No data is available on ecotoxicity, persistence and degradability, bioaccumulative potential and mobility in soil .

13) DISPOSAL CONSIDERATIONS

Dispose of unused or unstable product in accordance with applicable Federal, State Provincial, and local regulations.

Be aware the product contains valuable precious metal and may be recovered by appropriate refining or recovery process

14) TRANSPORT INFORMATION

These products are not Hazardous Substances or Dangerous Goods per USDOT, TDG (Canada), IATA, or IMO regulations.

15) REGULATORY INFORMATION

SARA Hazard Classes

Acute Health Hazards; Chronic Health Hazard

Ingredient(s) -U.S.Regulatory Information

Copper	SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical
Silver	SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical
Zinc	SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical

16) OTHER INFORMATION

This information and data are taken from sources believed to be reliable and correct but cannot be warranted by manufacturer. User is responsible to determine suitability of material for a specific application.
generated on 8/22/2021

GSM METALS, INC

40 Kenney Drive
Cranston, RI 02920
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SAFETY DATA SHEET

1) PRODUCT IDENTIFICATION

Product Name: Braze 650 alloy -" Easy" -GSM Alloy No. 65
Alloy contains Silver, Copper and Zinc.
Product is supplied as Mill Products in the form of wire, strip and sheet and in other forms when required
Primary product use: This is a Silver base brazing alloy and it is used for joining of metals.

2) HAZARD IDENTIFICATION

Note: Mill products supplied by us are not considered hazardous. In use, the alloy is melted. Appropriate ventillation and capture systems as well as personal protective gears should be provided.

Primary Routes (s) of Entry

Ingestion; inhalation

Eye Hazards

Eye contact with the products in finely-divided forms may cause irritation. Rinse opened eye for several minutes under running water and consult the physician

Skin Hazards

Skin contact may cause irritation. If irritation happens, immediately wash with water and soap. Rinse fully. If irritation continues, consult the physician.

Ingestion Hazards

Ingestion of these products in finely-divided forms may cause nausea, vomiting, and gastrointestinal irritation. If needed consult the physician,

Inhalation Hazards

Prolonged exposure to metallic fumes and particles should be avoided via ventillation, capture system and personnel protective gears as mentioned above.

Silver Chronic exposure via inhalation may cause argyria.

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.

3) COMPOSITION/INGREDIENTS

	<u>INGREDIENTS</u>	<u>%</u>	<u>CAS #</u>
(a)	Silver	64.5-65.5	7440-22-4
(b)	Copper	19.5-20.5	7440-50-8
(c)	Zinc	14.5-15.5	7440-66-6

4) FIRST-AID MEASURES

Eye Flush eyes with water for at least 15 minutes. Seek medical assistance if irritation continues.

Skin In case of contact, immediately flush skin surface with plenty of water.
Remove contaminated clothing. Wash affected area with large quantities of water for at least five minutes. Seek medical attention if necessary. Launder or dry-clean clothing before reuse.

Ingestion If subject is conscious, induce vomiting if directed by medical personnel. If unconscious or convulsive, seek immediate medical assistance.

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.

5) FIGHTING FIRE MEASURES

As shipped, these products do not present fire or explosion hazard

Flash Point: N/A ° F N/A ° C

Autoignition Point: N/A ° F N/A ° C

Flammability Class: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Fire and Explosion Hazards

In finely-divided form, these products may ignite when exposed to flame or by reaction with incompatible materials (see Section #10). If present in a fire or explosion, they may emit fumes of the constituent metals or metal oxides.

Extinguishing Media

Use dry chemical. Do not use water.

Fire Fighting instructions

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

6) ACCIDENTAL RELEASE MEASURES

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.

"Clean up personnel are recommended to wear protection against inhalation of dust and fine particles "

As the product contains valuable precious metal, the disposal may involve refining to recover precious metal
Dispose of any nonsalvageable material as per federal, state and local regulations.

7) HANDLING AND STORAGE

No special handling precautions are required.

Do not store in proximity to incompatible materials (see Section #10)

"No hazardous polymerization will occur"

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Use appropriate ventilation (e.g., dilution, local exhaust) adequate to maintain concentrations of all components to within their applicable standards.

Eye/Face Protection

Wear eye protection adequate to prevent eye contact with finely-divided product and eye injury if products are used with a flame. 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 injury if these products are used with a flame and/or for prolonged or repeated contact with finely-divided forms of product. Avoid flammable fabrics.

Respiratory Protection

If an exposure level exceeds an applicable exposure standard, use a NIOSH approved respirator having a configuration (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)

Ingredient (s) - Exposure Limits

Silver ACGIH TLVs: 0.1mg/m³ TWA (metal)
 OSHA PELs: 0.1mg/m³ TWA

Copper ACGIH TLVs: 0.2mg/m³ TWA(fume); 1mg/m³ TWA (dusts and mists)
 OSHA PELs: 0.1mg/n

Zinc ACGIH TLV: 5.0mg/m³

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Odorless light yellow color in the form of wire and strip etc shapes.

Chemical Type: Mixture (Alloy)

Physical State: Solid

Melting Point: 671 C (1240 F)

Specific Gravity: 9.6

Solubility: Insoluble

10) STABILITY AND REACTIVITY

Stability: Stable

Avoid storing in the vicinity of oxidizing agents such as common acids and chemical like ammonia.
Heating to elevated temperatures may liberate metal/metal oxide fumes.

11) TOXICOLOGICAL INFORMATION

Chronic/Carcinogenicity

No Data available on chronic effects, acute toxicity, chronic toxicity of the metals present in the alloy.

When used and handled according to specifications, the product does not exhibit harmful effects as per available literature

12) ECOLOGICAL INFORMATION

No data is available on ecotoxicity, persistence and degradability, bioaccumulative potential and mobility in soil .

13) DISPOSAL CONSIDERATIONS

Dispose of unused or unstable product in accordance with applicable Federal, State Provincial, and local regulations.

Be aware the product contains valuable precious metal and may be recovered by appropriate refining or recovery process

14) TRANSPORT INFORMATION

These products are not Hazardous Substances or Dangerous Goods per USDOT, TDG (Canada), IATA, or IMO regulations.

15) REGULATORY INFORMATION

SARA Hazard Classes

Acute Health Hazards; Chronic Health Hazard

Ingredient(s) -U.S.Regulatory Information

Copper SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical

Silver SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical

Zinc SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical

16) OTHER INFORMATION

This information and data are taken from sources believed to be reliable and correct but cannot be warranted by manufacturer. User is responsible to determine suitability of material for a specific application.

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420-822 & 420-872

GSM METALS, INC

40 Kenney Drive
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SAFETY DATA SHEET

1) PRODUCT IDENTIFICATION

Product Name: Braze 700 alloy-"Medium"-GSM Alloy No.240

Alloy contains Silver,Copper and Zinc

Product is supplied as Mill Products in the form of wire, strip and sheet and in other forms when required

Primary product use: This is a Silver base brazing alloy and it is used for joining of metals

2) HAZARD IDENTIFICATION

Note: Mill products supplied by us are not considered hazardous. In use, the alloy is melted.

Appropriate ventillation and capture systems as well as personal protective gears should be provided.

Primary Routes (s) of Entry

Ingestion; inhalation

Eye Hazards

Eye contact with the products in finely-divided forms may cause irritation. Rinse opened eye for several minutes under running water and consult the physician

Skin Hazards

Skin contact may cause irritation. If irritation happens, immediately wash with water and soap. Rinse fully. If irritation continues, consult the physician.

Ingestion Hazards

Ingestion of these products in finely-divided forms may cause nausea, vomiting, and gastrointestinal irritation. If needed consult the physician,

Inhalation Hazards

Prolonged exposure to metallic fumes and particles should be avoided via ventillation, capture system and personnel protective gears as mentioned above.

Silver Chronic exposure via inhalation may cause argyria.

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.

3) COMPOSITION/INGREDIENTS

	<u>INGREDIENTS</u>	<u>%</u>	<u>CAS #</u>
(a)	Silver	69.5-70.5	7440-22-4
(b)	Copper	19.5-20.5	7440-50-8
(c)	Zinc	9.5-10.5	7440-66-6

4) FIRST-AID MEASURES

Eye Flush eyes with water for at least 15 minutes. Seek medical assistance if irritation continues.

Skin In case of contact, immediately flush skin surface with plenty of water.
Remove contaminated clothing. Wash affected area with large quantities of water for at least five minutes. Seek medical attention if necessary. Launder or dry-clean clothing before reuse.

Ingestion If subject is conscious, induce vomiting if directed by medical personnel. If unconscious or convulsive, seek immediate medical assistance.

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.

5) FIGHTING FIRE MEASURES

As shipped, these products do not present fire or explosion hazard

Flash Point: N/A ° F N/A ° C

Autoignition Point: N/A ° F N/A ° C

Flammability Class: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Fire and Explosion Hazards

In finely-divided form, these products may ignite when exposed to flame or by reaction with incompatible materials (see Section #10). If present in a fire or explosion, they may emit fumes of the constituent metals or metal oxides.

Extinguishing Media

Use dry chemical. Do not use water.

Fire Fighting instructions

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

6) ACCIDENTAL RELEASE MEASURES

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.

"Clean up personnel are recommended to wear protection against inhalation of dust and fine particles "

As the product contains valuable precious metal, the disposal may involve refining to recover precious metal
Dispose of any nonsalvageable material as per federal, state and local regulations.

7) HANDLING AND STORAGE

No special handling precautions are required.

Do not store in proximity to incompatible materials (see Section #10)

"No hazardous polymerization will occur"

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Use appropriate ventilation (e.g., dilution, local exhaust) adequate to maintain concentrations of all components to within their applicable standards.

Eye/Face Protection

Wear eye protection adequate to prevent eye contact with finely-divided product and eye injury if products are used with a flame. 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 injury if these products are used with a flame and/or for prolonged or repeated contact with finely-divided forms of product. Avoid flammable fabrics.

Respiratory Protection

If an exposure level exceeds an applicable exposure standard, use a NIOSH approved respirator having a configuration (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)

Ingredient (s) - Exposure Limits

Silver ACGIH TLVs: 0.1mg/m³ TWA (metal)
 OSHA PELs: 0.1mg/m³ TWA

Copper ACGIH TLVs: 0.2mg/m³ TWA (fume); 1mg/m³ TWA (dusts and mists)
 OSHA PELs: 0.1mg/n

Zinc ACGIH TLV: 5.0mg/m³

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Odorless light yellow color in the form of wire and strip etc shapes.

Chemical Type: Mixture (Alloy)

Physical State: Solid

Melting Point: 691 C (1275 F)

Specific Gravity: 9.8

Solubility: Insoluble

10) STABILITY AND REACTIVITY

Stability: Stable

Avoid storing in the vicinity of oxidizing agents such as common acids and chemical like ammonia.
Heating to elevated temperatures may liberate metal/metal oxide fumes.

11) TOXICOLOGICAL INFORMATION

Chronic/Carcinogenicity

No Data available on chronic effects, acute toxicity, chronic toxicity of the metals present in the alloy.

When used and handled according to specifications, the product does not exhibit harmful effects as per available literature

12) ECOLOGICAL INFORMATION

No data is available on ecotoxicity, persistence and degradability, bioaccumulative potential and mobility in soil .

13) DISPOSAL CONSIDERATIONS

Dispose of unused or unstable product in accordance with applicable Federal, State Provincial, and local regulations.

Be aware the product contains valuable precious metal and may be recovered by appropriate refining or recovery process

14) TRANSPORT INFORMATION

These products are not Hazardous Substances or Dangerous Goods per USDOT, TDG (Canada), IATA, or IMO regulations.

15) REGULATORY INFORMATION

SARA Hazard Classes

Acute Health Hazards; Chronic Health Hazard

Ingredient(s) -U.S.Regulatory Information

Copper SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical

Silver SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical

Zinc SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical

16) OTHER INFORMATION

This information and data are taken from sources believed to be reliable and correct but cannot be warranted by manufacturer. User is responsible to determine suitability of material for a specific application.

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420-823 & 420-873

GSM METALS, INC

40 Kenney Drive
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Tel: (401)438-7092
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SAFETY DATA SHEET

1) PRODUCT IDENTIFICATION

Product Name: Braze750 Alloy -"Hard" -GSM Alloy 241

Alloy contains Silver,Copper and Zinc.

Product is supplied as Mill Products in the form of wire, strip and sheet and in other forms when required

Primary product use: This is a Silver base brazing alloy and it is used for joining of metals.

2) HAZARD IDENTIFICATION

Note: Mill products supplied by us are not considered hazardous. In use, the alloy is melted.

Appropriate ventillation and capture systems as well as personal protective gears should be provided.

Primary Routes (s) of Entry

Ingestion; inhalation

Eye Hazards

Eye contact with the products in finely-divided forms may cause irritation.Rinse opened eye for several minutes under running water and consult the physician

Skin Hazards

Skin contact may cause irritation. If irritation happens, immeiately wash with water and soap. Rinse rinse fully. If irritation continues, consult the physiician.

Ingestion Hazards

Ingestion of these products in finely-divided forms may cause nausea, vomiting, and gastrointestinal irritation.If needed consult the physician,

Inhalation Hazards

Prolonged exposure to metallic fumes and particles should be avoided via ventillation, capture system and personnel protective gears as mentioned above.

Silver Chronic exposure via inhalation may cause argyria.

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.

3) COMPOSITION/INGREDIENTS

	<u>INGREDIENTS</u>	<u>%</u>	<u>CAS #</u>
(a)	Silver	74,5-75.5	7440-22-4
(b)	Copper	21.5-22.5	7440-50-8
(c)	Zinc	2.5-3.5	7440-66-6

4) FIRST-AID MEASURES

Eye Flush eyes with water for at least 15 minutes. Seek medical assistance if irritation continues.

Skin In case of contact, immediately flush skin surface with plenty of water.
Remove contaminated clothing. Wash affected area with large quantities of water for at least five minutes. Seek medical attention if necessary. Launder or dry-clean clothing before reuse.

Ingestion If subject is conscious, induce vomiting if directed by medical personnel. If unconscious or convulsive, seek immediate medical assistance.

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.

5) FIGHTING FIRE MEASURES

As shipped, these products do not present fire or explosion hazard

Flash Point: N/A ° F N/A ° C

Autoignition Point: N/A ° F N/A ° C

Flammability Class: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Fire and Explosion Hazards

In finely-divided form, these products may ignite when exposed to flame or by reaction with incompatible materials (see Section #10). If present in a fire or explosion, they may emit fumes of the constituent metals or metal oxides.

Extinguishing Media

Use dry chemical. Do not use water.

Fire Fighting instructions

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

6) ACCIDENTAL RELEASE MEASURES

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.

"Clean up personnel are recommended to wear protection against inhalation of dust and fine particles "

As the productt contains valuable precious metal,the disposal may involve refining to recover precious metal
Dispose of any nonsalvageable material as per federal, state and local regulations.

7) HANDLING AND STORAGE

No special handling precautions are required.

Do not store in proximity to incompatible materials (see Section #10)

"No hazardous polymerization will occur"

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Use appropriate ventilation (e.g., dilution, local exhaust) adequate to maintain concentrations of all components to within their applicable standards.

Eye/Face Protection

Wear eye protection adequate to prevent eye contact with finely-divided product and eye injury if products are used with a flame. 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 injury if these products are used with a flame and/or for prolonged or repeated contact with finely-divided forms of product. Avoid flammable fabrics.

Respiratory Protection

If an exposure level exceeds an applicable exposure standard, use a NIOSH approved respirator having a configuration (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)

Ingredient (s) - Exposure Limits

Silver ACGIH TLVs:0.1mg/m³ TWA 9metal)
OSHA PELs: 0.1mg/m³ TWA

Copper ACGIH TLVs: 0.2mg/m³ TWA(fume); 1mg/m³ TWA (dusts and mists)
OSHA PELs: 0.1mg/n

Zinc ACGIH TLV:5.0mg/m³

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Odorless light yellow color in the form of wire and strip etc shapes.

Chemical Type: Mixture (Alloy)

Physical State: Solid

Melting Point: 741 C (1365 F)

Specific Gravity: 9.94

Solubility: Insoluble

10) STABILITY AND REACTIVITY

Stability: Stable

Avoid storing in the vicinity of oxidizing agents such as common acids and chemical like ammonia.
Heating to elevated temperatures may liberate metal/metal oxide fumes.

11) TOXICOLOGICAL INFORMATION

Chronic/Carcinogenicity

No Data available on chronic effects, acute toxicity, chronic toxicity of the metals present in the alloy.

When used and handled according to specifications, the product does not exhibit harmful effects as per available literature

12) ECOLOGICAL INFORMATION

No data is available on ecotoxicity, persistence and degradability, bioaccumulative potential and mobility in soil .

13) DISPOSAL CONSIDERATIONS

Dispose of unused or unstable product in accordance with applicable Federal, State Provincial, and local regulations.

Be aware the product contains valuable precious metal and may be recovered by appropriate refining or recovery process

14) TRANSPORT INFORMATION

These products are not Hazardous Substances or Dangerous Goods per USDOT, TDG (Canada), IATA, or IMO regulations.

15) REGULATORY INFORMATION

SARA Hazard Classes

Acute Health Hazards; Chronic Health Hazard

Ingredient(s) -U.S.Regulatory Information

Copper SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical

Silver SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical

Zinc SARA Title III -Section 313 Form "R"/ TRI Reportable Chemical

16) OTHER INFORMATION

This information and data are taken from sources believed to be reliable and correct but cannot be warranted by manufacturer. User is responsible to determine suitability of material for a specific application.

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