

SECTION 1: Identification**1.1 GHS Product Identifier:****Product Name:****STAINLESS STEEL INSERTS (NO COATING)****Brand:****EZ-LOK****1.2 Other means of identification:****E-Z LOK Part Numbers (E-Z PRESS FOR PLASTIC / FLUSH / 303 STAINLESS / STAINLESS):**

240-002-CR (2-56), 240-004-CR (4-40), 240-006-CR (6-32), 240-008-CR (8-32), 240-332-CR (10-32), 240-3-CR (10-24), 240-4-CR (1/4-20), 240-5-CR (5/16-18), 240-6-CR (3/8-16), 240-M3-CR (M3-0.5), 240-M4-CR (M4-0.7), 240-M5-CR (M5-0.8), 240-M6-CR (M6-1.0)

E-Z LOK Part Numbers (E-Z PRESS FOR PLASTIC / FLANGED / 303 STAINLESS):

260-002-CR (2-56), 260-004-CR (4-40), 260-006-CR (6-32), 260-008-CR (8-32), 260-332-CR (10-32), 260-4-CR (1/4-20), 260-M3-CR (M3-0.5), 260-M4-CR (M4-0.7), 260-M5-CR (M5-0.8), 260-M6-CR (M6-1.0)

E-Z LOK Part Numbers (E-Z KNIFE FOR HARD WOOD / 303 STAINLESS / STAINLESS):

400-004-CR (4-40), 400-006-CR (6-32), 400-008-CR (8-32), 400-332-CR (10-32), 400-3-CR (10-24), 400-428-CR (1/4-28), 400-4-CR (1/4-20), 400-524-CR (5/16-24), 400-5-CR (5/16-18), 400-624-CR (3/5-24), 400-6-CR (3/8-16), 400-M10-CR (M10-1.5), 400-M3-CR (M3-0.5), 400-M4-CR (M4-0.7), 400-M5-CR (M5-0.8), 400-M6-CR (M6-1.0), 400-M8-CR (M8-1.25)

E-Z LOK Part Numbers (E-Z COIL FOR METAL):

20010 (2-56 X 1D), 20015 (2-56 X 1.5D), 20020 (2-56 X 2D), 20110 (3-48 X 1D), 20115 (3-48 X 1.5D), 20120 (3-48 X 2D), 20210 (4-40 X 1D), 20215 (4-40 X 1.5D), 20220 (4-40 X 2D), 20310 (5-40 X 1D), 20315 (5-40 X 1.5D), 20320 (5-40 X 2D), 20410 (6-32 X 1D), 20415 (6-32 X 1.5D), 20420 (6-32 X 2D), 20510 (8-32 X 1D), 20515 (8-32 X 1.5D), 20520 (8-32 X 2D), 20610 (10-24 X 1D), 20615 (10-24 X 1.5D), 20620 (10-24 X 2D), 20710 (12-24 X 1D), 20715 (12-24 X 1.5D), 20720 (12-24 X 2D), 20810 (1/4-20 X 1D), 20815 (1/4-20 X 1.5D), 20820 (12-20 X 2D), 20910 (5/16-18 X 1D), 20915 (5/16-18 X 1.5D), 20920 (5/16-18 X 2D), 21010 (3/8-16 X 1D), 21015 (3/8-16 X 1.5D), 21020 (3/8-16 X 2D), 21110 (7/16-14 X 1D), 21115 (7/16-14 X 1.5D), 21120 (7/16-14 X 2D), 21210 (1/2-13 X 1D), 21215 (1/2-13 X 1.5D), 21220 (1/2-13 X 2D), 21310 (9/16-12 X 1D), 21315 (9/16-12 X 1.5D), 21320 (9/16-12 X 2D), 21410 (5/8-11 X 1D), 21415 (5/8-11 X 1.5D), 21420 (5/8-11 X 2D), 21510 (3/4-10 X 1D), 21515 (3/4-10 X 1.5D), 21520 (3/4-10 X 2D), 21610

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(7/8-9 X 1D), 21615 (7/8-9 X 1.5D), 21620 (7/8-9 X 2D), 21710 (1-8 X 1D), 21715 (1-8 X 1.5D), 21720 (1-8 X 2D), 21815 (1-1/8-7 X 1.5DC), 21915 (1-1/4-7 X 1.5D), 22015 (1-3/8-6 X 1.5D), 22115 (1-1/2-6 X 1.5D), 30210 (4-48 X 1D), 30215 (4-48 X 1.5D), 30220 (4-48 X 2D), 30410 (6-40 X 1D), 30415 (6-40 X 1.5D), 30420 (6-40 X 2D), 30510 (8-36 X 1D), 30515 (8-36 X 1.5D), 30520 (8-36 X 2D), 30610 (10-32 X 1D), 30615 (10-32 X 1.5D), 30620 (10-32 X 2D), 30810 (1/4-28 X 1D), 30815 (1/4-28 X 1.5D), 30820 (1/4-28 X 2D), 30910 (5/16-24 X 1D), 30915 (5/16-24 X 1.5D), 30920 (5/16-24 X 2D), 31010 (3/8-24 X 1D), 31015 (3/8-24 X 1.5D), 31020 (3/8-24 X 2D), 31110 (7/16-20 X 1D), 31115 (7/16-20 X 1.5D), 31120 (7/16-20 X 2D), 31210 (1/2-20 X 1D), 31215 (1/2-20 X 1.5D), 31220 (1/2-20 X 2D), 31310 (9/16-18 X 1DC), 31315 (9/16-18 X 1.5D), 31320 (9/16-18 X 2D), 31410 (5/8-18 X 1D), 31415 (5/8-18 X 1.5D), 31420 (5/8-18 X 2D), 31510 (3/4-16 X 1D), 31515 (3/4-16 X 1.5D), 31520 (3/4-16 X 2D), 31610 (7/8-14 X 1D), 31615 (7/8-14 X 1.5D), 31620 (7/8-14 X 2D), 31710 (1-14 X 1D), 31715 (1-14 X 1.5D), 31720 (1-14 X 2D), 31815 (1-1/8-12 X 1.5D), 31915 (1-1/4-12 X 1.5D), 32015 (1-3/8-12 X 1.5D), 32115 (1-1/2-12 X 1.5D), 32210 (1-12 X 1D), 32215 (1-12 X 1.5D), 32220 (1-12 X 2D), 40010 (M2-0.4 X 1D), 40015 (M2-0.4 X 1.5D), 40020 (M2-0.4 X 2D), 40110 (M2.5-0.45 X 1D), 40115 (M2.5-0.45 X 1.5D), 40120 (M2.5-0.45 X 2D), 40210 (M3-0.5 X 1D), 40215 (M3-0.5 X 1.5D), 40220 (M3-0.5 X 2D), 40310 (M3.5-0.6 X 1D), 40315 (M3.5-0.6 X 1.5D), 40320 (M3.5-0.6 X 2D), 40410 (M4-0.7 X 1D), 40415 (M4-0.7 X 1.5D), 40420 (M4-0.7 X 2D), 40510 (M5-0.8 X 1D), 40515 (M5-0.8 X 1.5D), 40520 (M5-0.8 X 2D), 40610 (M6-1.0 X 1D), 40615 (M6-1.0 X 1.5D), 40620 (M6-1/0 X 2D), 40710 (M7-1.0 X 1D), 40715 (M7-1.0 X 1.5D), 40720 (M7-1.0 X 2D), 40810 (M8-1.25 X 1D), 40815 (M8-1.25 X 1.5D), 40820 (M8-1.25 X 2D), 40910 (M10-1.5 X 1D), 40915 (M10-1.5 X 1.5D), 40920 (M10-1.5 X 2D), 41010 (M12-1.75 X 1D), 41015 (M12-1.75 X 1.5D), 42020 (M12-1.75 X 2D), 41110 (M14-2.0 X 1D), 41115 (M14-2.0 X 1.5D), 41120 (M14-2.0 X 2D), 41210 (M16-2.0 X 1D), 41215 (M16-2.0 X 1.5D), 41220 (M16-2.0 X 2D), 41310 (M18-2.5 X 1D), 41315 (M18-2.5 X 1.5D), 41320 (M18-2.5 X 2DC), 41410 (M20-2.5 X 1D), 41415 (M20-2.5 X 1.5D), 41420 (M20-2.5 X 2D), 41510 (M22-2.5 X 1D), 41515 (M22-2.5 X 1.5D), 41520 (M22-2.5 X 2D), 41610 (M24-3.0 X 1D), 41615 (M24-3.0 X 1.5D), 41620 (M24-3.0 X 2D), 41715 (M27-3.0 X 1.5D), 41815 (M30-3.5 X 1.5D), 41915 (M33-3.5 X 1.5D), 42015 (M36-4.0 X 1.5D), 42115 (M39-4.0 X 1.5D), 42210 (M11-1.5 X 1D), 42215 (M11-1.5 X 1.5D), 42220 (M11-1.5 X 2D), 50810 (M8-1.0 X 1D), 50815 (M8-1.0 X 1.5D), 50820 (M8-1.0 X 2D), 50910 (M10-1.25 X 1D), 50915 (M10-1.25 X 1.5D), 50920 (M10-1.25 X 2D), 50932 (M10-1.0 X .312 - 3/8 REACH), 50934 (M10-1.0 X .386 - 1/2 REACH), 51010 (M12-1.5 X 1D), 51015 (M12-1.5 X 1.5D), 51020 (M12-1.5 X 2D), 51034 (M12-1.25 X .406 - 1/2 REACH), 51036 (M12-1.25 X .656 - 3/4 REACH), 51110 (M14-1.5 X 1D), 51115 (M14-1.5 X 1.5D), 51120 (M14-1.5 X 2D), 51132 (M14-1.25 X .281 - 3/8 REACH), 51134 (M14-1.25 X .406 - 1/2 REACH), 51136 (M14-1.25 X .656 - 3/4 REACH), 51210 (M16-1.5 X 1D), 51215 (M16-1.5 X 1.5D), 51220 (M16-1.5 X 2D), 51315 (M18-2.0 X 1.5D), 51334 (M18-1.5 X .406 - 1/2 REACH), 51335 (M18-1.5 X .531 - 5/8 REACH), 51415 (M20-2.0 X 1.5D), 51515 (M22-2.0 X 1.5D), 51615 (M24-2.0 X 1.5D)

1.3 Recommended use of the chemical and restrictions on use:

Stainless Steel Inserts are manufactured for use with plastics, hard woods, and metal materials.

1.4 Supplier's details:

Name	E-Z LOK
Address	240 E. Rosecrans Avenue Gardena CA 90248 USA
Telephone	(310) 323-5613
Fax	(310) 353-3919
Website	www.ezlok.com

1.5 Emergency phone number (s):

EZ-LOK	800-234-5613
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CHEMTREC (24-hrs)

800-424-9300

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture:

GHS classification in accordance with: UN GHS Revision 3

- Carcinogenicity, Cat. 2 / H351
- Skin Sensitivity, Cat. 1 / H317
- Eye irritation, Cat. 2 / H319
- Specific target organ toxicity following repeated exposure, Cat. 1 / H372
- Acute toxicity, oral, Cat. 5 / H303
- Respiratory Sensitivity Cat. 1 / H334

2.2 GHS label elements, including precautionary statements:

Pictograms



1. Exclamation Mark



2. Health Hazard



3. Corrosion



4. Environment

Signal Word: **DANGER**

Hazard statements:

H303	Harmful if swallowed
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy, asthma symptoms, or breathing difficulties
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposures
H412, H413	Toxic to aquatic life, Chronic

Precautionary Statements:

Prevention:

P201	Review any special instructions before product use.
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing machined dusts, fumes, gases, mists, vapors, or sprays
P264	Wash thoroughly after handling this product
P270	Do not eat, drink, or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Use personal protective equipment as required
P285	In case of inadequate ventilation, wear respiratory protection

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Response:

P314	IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell
P302 & P352	IF ON SKIN: Lightly brush machined dusts from skin. Rinse the skin with soap and water
P304 & P312	IF INHALED: Remove worker to fresh air and keep in a position comfortable for breathing
P305, P351, & P338	IF IN EYES: Remove contact lens (if present). Rinse cautiously with water for 15 minutes
P337 & P313	IF EYE IRRITATION PERSISTS: Get medical advice / attention
P308 & P313	IF EXPOSED (or concerned): Get medical advice / attention
P363	IF CLOTHING IS CONTAMINATED: Wash before reuse
P333 & P313	IF SKIN IRRITATION OR A RASH OCCURS: Get medical advice / attention
P341, P342, & P311	IF EXPERIENCING RESPIRATORY SYMPTOMS: Get medical advice / attention

Storage:

P403	Store in a well-ventilated place
P404	Keep container tightly closed
P405	Store in a secure location

Disposal:

P501	Dispose of contents / container in accordance with disposal regulations
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2.3 Other hazards which do not result in classification:

This product (as shipped) is **INERT** in its solid form (non-hazardous).
Stainless Steel products in their solid form present no inhalation, ingestion, or contact health hazard.
User-generated dust, fumes, and mists may pose a hazard if inhaled or ingested.
Avoid inhalation of metal dusts and fumes.
Dusts may be irritating to the unprotected skin or eyes.
Metal dusts / fumes may cause an influenza-like illness.
Avoid skin / eye contact with dusts to prevent mechanical irritation.
Section 3 (3.1) is a summary of compounds typically found in Stainless Steel.
Various grades of Stainless Steel will contain different combinations of these compounds.
Other trace elements may also be present in minute amounts.
These small quantities (less than 0.1 %) are frequently referred to as "trace" or "residual" compounds.

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SECTION 3: Composition / Information On Ingredients

3.1 Mixtures/Hazardous Components:

1. Iron	
Concentration	50 - 75 % (weight)
EC no.	231-096-4
CAS no.	7439-89-6
2. Chromium (Cr III)	
Concentration	10 - 25 % (weight)
EC no.	231-157-5
CAS no.	7440-47-3
H317	Skin Corrosion / Irritation
H319	Eye Irritation
H334	Respiratory Sensitivity
H413	Aquatic Chronic 4
3. Nickel	
Concentration	10 - 25 % (weight)
EC no.	231-111-4
CAS no.	7440-02-0
H351	Carcinogen 2
H372	STOT RE
H317	Skin Corrosion / Irritation
H412	Aquatic Chronic 3
4. Manganese	
Concentration	5 - 10 % (weight)
EC no.	215-695-8
CAS no.	7439-96-5
5. Copper	
Concentration	1 - 5 % (weight)
EC no.	231-159-6
CAS no.	7440-50-8
6. Molybdenum	
Concentration	1 - 5 % (weight)
EC no.	231-107-2
CAS no.	7439-98-7
7. Aluminum	
Concentration	1 - 5 % (weight)
EC no.	215-160-9
CAS no.	7429-90-5
H228	Flammable Solid 1
H261	Water Reactive 2

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8. Silicon
Concentration 1 - 5 % (weight)
EC no. 231-130-8
CAS no. 7440-21-3

9. Calcium
Concentration 1 - 5 % (weight)
EC no. 207-439-9
CAS no. 7440-70-2

H261 Water Reactive 2

10. Cobalt
Concentration 0.1 - 1 % (weight)
EC no. 231-158-0
CAS no. 7440-48-4

H334 Respiratory Sensitivity 1
H317 Skin Sensitivity 1
H413 Aquatic Chronic 4

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SECTION 4: First-Aid Measures

4.1 Description of necessary first-aid measures:

General advice:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
If inhaled:	If inhaled, remove the worker to fresh air and keep in a comfortable position. Obtain medical attention if breathing difficulty persists. Inhalation of large amounts of particulates generated by this product during metal processing operations may result in irritation. Inhalation of dusts & fumes of Chromium, Copper, Nickel & Cobalt (components of this product) can cause metal fume fever.
In case of skin contact:	Cool skin rapidly with soap and cold water. Remove contaminated clothing. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.
In case of eye contact:	Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Remove contact lenses (if worn). Continue rinsing. Obtain medical attention if irritation develops or persists.
If swallowed:	If swallowed, do not induce vomiting. Seek medical advice immediately.
PPE for first-aid responders:	Ensure that emergency responders & medical personnel are aware of the materials involved, and they take the necessary precautions to protect themselves.

4.2 Most important symptoms / effects, acute and delayed:

ACCUTE EFFECTS: Excessive exposure, elevated temperatures, or mechanical actions may form dusts and fumes which may be irritating to the eye, mucous membranes, and respiratory tract.

CHRONIC EFFECTS: Prolonged inhalation of fumes or dusts may cause a variety of adverse health effects to the respiratory system, including lesions of the mucous membrane, bronchitis, pneumonia, and cancers of the nasal cavity and respiratory tract.

POTENTIAL HEALTH EFFECTS AGGRAVATED BY EXPOSURE: Any pre-existing chronic respiratory condition (asthma, chronic bronchitis, and emphysema).

ROUTES OF ENTRY: Inhalation, Contact, Ingestion.

A compound of Stainless Steel (Nickel) is listed as a Carcinogen 2.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Provide general supportive measures and treat symptomatically.

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Keep the worker under observation and in a well-ventilated area.
Symptoms may be delayed.

SECTION 5: Fire-fighting Measures

5.1 Suitable extinguishing media:

Use extinguishing media appropriate for the surrounding fire.
Do not use halogenated extinguishing agents on small metal chips or fine dusts.

5.2 Specific hazards arising from the substance or mixture:

When involved in a fire, this product may decompose and produce irritating fumes and toxic gases including Copper and metal fumes.

Avoid breathing dusts, fumes, gases, mists, vapors, and sprays.

If safe to do so, remove products from path of fire.

Contact with acids will release flammable hydrogen gases.

During the fire, gases hazardous to health may be formed.

5.3 Special protective actions for fire-fighters:

Incipient fire responders should obtain/wear eye protection, breathing apparatus, and protective gloves.

If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

5.4 Further information:

Products are non-flammable, non-combustible at low temperatures, but will burn at high temperatures.

Use standard firefighting procedures and consider the hazards of other involved materials.

Emergency response equipment should be thoroughly decontaminated after use.

No unusual fire or explosion hazards noted.

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SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures:

Isolate the immediate area.
Keep people away from any spill, leak, or fire.
Metal dust deposits should not be allowed to accumulate on nearby surfaces.
Wear appropriate protective equipment and clothing during clean-up.
Do not breathe dusts generated during machining operations.
Use a NIOSH/MSHA approved respirator if exposed to dusts/fumes at levels exceeding the exposure limits.
Ensure adequate ventilation in the immediate area.
Stainless Steel in a solid form will have minimal impact if an accidental spill of products occur.

6.2 Environmental precautions:

Do not allow spills or machined dusts to discharge into drains, water courses, or onto nearby exposed soils.
Use good hygiene practices.
Wash hands before eating, drinking, smoking, or using toilet facilities.
Promptly remove soiled clothing and wash them thoroughly before reuse.

6.3 Methods and materials for containment and cleaning up:

Products can be contained by shovels and brooms (solid products).
Eliminate all ignition sources (no smoking, flares, sparks, or open flames in the immediate area).
Avoid dispersal of metallic dust in the air (i.e., cleaning dust surfaces with compressed air).
Collect dusts using a HEPA filtered vacuum device.
Recover and recycle product machining material (if practical).

Large Spills:

Wet down immediate area with water and dike/contain the water / dust debris for later disposal.
Following product recovery, flush affected area with rinse water.
Place cleaned up products into properly labeled & secured DOT storage containers.

Small Spills:

Sweep up or vacuum spillage and collect in suitable, covered, and labeled container for later disposal.

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SECTION 7: Handling And Storage

7.1 Precautions for safe handling:

Obtain special handling instructions before use.
Minimize activities which may generate dusts, mists, or fumes.
Routine housekeeping should be instituted to ensure that dusts do not accumulate on nearby work surfaces.
Periodically wipe-down immediate work areas to prevent the accumulation of dusts.
Keep away from heat, sparks, open flames, or other hot surfaces.
Do not eat, drink, smoke, or apply cosmetics while handling this product.
Do not breathe dusts generated from machining operations.
Avoid prolonged contact with eyes, skin, and clothing.
Wear appropriate personal protective equipment.
Wash hands thoroughly after handling.
Observe good industrial hygiene practices.
Provide adequate ventilation.
Handling and processing operations should be conducted in accordance with best management procedures.

7.2 Conditions for safe storage, including any incompatibilities:

Keep material containers tightly closed in a dry, cool, and well-ventilated location.
All employees who handle this product should be trained to handle it safely.
Handle containers carefully to prevent damage and spillage.
Packages of this material must be properly labeled.
Store with other metal products.
Store away from incompatibles (Stainless Steel is incompatible with strong acids).

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SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters:

Exposure Data:

1. Aluminum (CAS: 7429-90-5 / EC: 215-160-9)

US / OSHA: TWA 15 mg/m³ (Total) TWA 5 mg/m³ (Respirable)
ACGIH: TWA 1.0 mg/m³ (Revised 2008)
NIOSH: TWA 10 mg/m³ (Total) TWA 5 mg/m³ (Respirable)

2. Iron Oxide (CAS: 7439-89-6 / EC: 231-096-4)

US / OSHA: TWA 10 mg/m³ (Fume)
ACGIH: TWA 5 mg/m³ (Respirable)
NIOSH: TWA 5 mg/m³ (Fume & Dust)

3. Manganese (CAS: 7439-96-5 / EC: 215-695-8)

US / OSHA: TWA 5 mg/m³
ACGIH: TWA 0.02 mg/m³ (Respirable) / 0.1 mg/m³ (Inhalable)
NIOSH: TWA 1 mg/m³ (STEL) /

4. Molybdenum (CAS: 7439-98-7 / EC: 231-107-2)

US / OSHA: TWA 15 mg/m³
ACGIH: TWA 3 mg/m³ (Insoluble Respirable) / 10 mg/m³ (Insoluble Inhalable)
NIOSH: No Established RELs

5. Nickel (CAS: 7440-02-0 / EC: 231-111-4)

US / OSHA: TWA 1 mg/m³
ACGIH: TWA 0.2 mg/m³ (Insoluble - Inhalable) / 1.5 mg/m³ (Elemental – Inhalable)
NIOSH: TWA 0.015 mg/m³

6. Silicon (CAS: 7440-21-3 / EC: 231-130-8)

US / OSHA: TWA 15 mg/m³ (Total) TWA 5 mg/m³ (Respirable)
ACGIH: No Established Limit
NIOSH: TWA 10 mg/m³ (Total) TWA 5 mg/m³ (Respirable)

7. Chromium III (CAS: 7440-47-3 / EC: 231-157-5)

US / OSHA: TWA 1 mg/m³
ACGIH: TWA 0.5 mg/m³ (Inhalable)
NIOSH: TWA 0.5 mg/m³

8. Cobalt (CAS: 7440-48-4 / EC: 231-158-0)

US / OSHA: TWA 0.1 mg/m³

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ACGIH: TWA 0.02 mg/m3 (Inhalable)
NIOSH: TWA 0.05 mg/m3 (Total)

9. Copper (CAS: 7440-50-8 / EC: 231-159-6)

US / OSHA: TWA 1 mg/m3 (Copper Compounds) / TWA 0.1 mg/m3 (Fumes)
ACGIH: TWA 0.2 mg/m3 (Fumes) / TWA 1 mg/m3 (Dusts & Mists)
NIOSH: TWA 1 mg/m3 (Copper Compounds) / TWA 0.1 mg/m3 (Fumes)

10. Calcium (CAS: 7440-70-2 / EC: 207-439-9)

US / OSHA: No Established Limit
ACGIH: No Established Limit
NIOSH: No Established Limit

Carcinogen Data:

1. Aluminum (CAS: 7429-90-5 / EC: 215-160-9)

US / OSHA: Select Carcinogen: NO
NTP: Known: NO / Suspected: NO
ACGIH: Not Classifiable As A Human Carcinogen
IARC: Group 1: NO, Group 2a: NO, Group 2b: NO, Group 3: NO, Group 4: NO

2. Iron Oxide (CAS: 7439-89-6 / EC: 231-096-4)

US / OSHA: Select Carcinogen: NO
NTP: Known: NO / Suspected: NO
ACGIH: Not Classifiable As A Human Carcinogen
IARC: Group 1: NO, Group 2a: NO, Group 2b: NO, Group 3: NO, Group 4: NO

3. Manganese (CAS: 7439-96-5 / EC: 215-695-8)

US / OSHA: Select Carcinogen: NO
NTP: Known: NO / Suspected: NO
ACGIH: Not Classifiable As A Human Carcinogen
IARC: Group 1: NO, Group 2a: NO, Group 2b: NO, Group 3: NO, Group 4: NO

4. Molybdenum (CAS: 7439-98-7 / EC: 231-107-2)

US / OSHA: Select Carcinogen: NO
NTP: Known: NO / Suspected: NO
ACGIH: Not Classifiable As A Human Carcinogen
IARC: Group 1: NO, Group 2a: NO, Group 2b: NO, Group 3: NO, Group 4: NO

5. Nickel (CAS: 7440-02-0 / EC: 231-111-4)

US / OSHA: **Select Carcinogen: YES**
NTP: **Known: YES / Suspected: YES**
ACGIH: Elemental (Not Suspected) / Soluble (**Confirmed Human Carcinogen**)
IARC: Group 1: NO, Group 2a: NO, **Group 2b: YES**, Group 3: NO, Group 4: NO

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6. Silicon (CAS: 7440-21-3 / EC: 231-130-8)

US / OSHA: Select Carcinogen: NO
NTP: Known: NO / Suspected: NO
ACGIH: Not Classifiable As A Human Carcinogen
IARC: Group 1: NO, Group 2a: NO, Group 2b: NO, Group 3: NO, Group 4: NO

7. Chromium III (CAS: 7440-47-3 / EC: 231-157-5)

US / OSHA: Select Carcinogen: NO
NTP: Known: NO / Suspected: NO
ACGIH: Not Classifiable As A Human Carcinogen
IARC: Group 1: NO, Group 2a: NO, Group 2b: NO, **Group 3: YES**, Group 4: NO

8. Cobalt (CAS: 7440-48-4 / EC: 231-158-0)

US / OSHA: **Select Carcinogen: YES**
NTP: Known: NO / Suspected: NO
ACGIH: **Confirmed Animal Carcinogen**
IARC: Group 1: NO, Group 2a: NO, **Group 2b: YES**, Group 3: NO, Group 4: NO

9. Copper (CAS: 7440-50-8 / EC: 231-159-6)

US / OSHA: Select Carcinogen: NO
NTP: Known: NO / Suspected: NO
ACGIH: Not Classifiable As A Human Carcinogen
IARC: Group 1: NO, Group 2a: NO, Group 2b: NO, Group 3: NO, Group 4: NO

10. Calcium (CAS: 7440-70-2 / EC: 207-439-9)

US / OSHA: Select Carcinogen: NO
NTP: Known: NO / Suspected: NO
ACGIH: Not Classifiable As A Human Carcinogen
IARC: Group 1: NO, Group 2a: NO, Group 2b: NO, Group 3: NO, Group 4: NO

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8.2 Appropriate engineering controls:

Use local exhaust ventilation.

Ventilation rates should be matched to exposure conditions.

If exposure limits have not been established, maintain airborne dust levels to an acceptable limit.

If exposure limits are known, maintain dust levels below those that cause suspected, or adverse effects.

8.3 Individual protection measures, such as personal protective equipment (PPE):

Pictograms:



Eye / Face protection:

Safety glasses with side shields are required (refer to OSHA 29 CFR 1910.133).

Contact lens may present a special hazard where soft contact lens may absorb and concentrate irritants.

A written policy document, describing the wearing of lens, or the restrictions on use, should be created for each workplace/task where Stainless Steel products are machined, handled, or stored.

Unvented, tight-fitting goggles should be worn in dusty areas.

Use of safety glasses or goggles is required for welding, burning, sawing, brazing, grinding, or machining operations.

When welding, safety glasses, goggles, or face-shield shall be fitted with filter lens of appropriate shade number.

Ensure that an eye wash station is located within 60 feet, or 10 walking seconds, of the work areas where Stainless Steel materials are machined, handled, or stored.

Skin protection:

Wear suitable gloves to prevent cuts, abrasions, and skin contact exposures.

When Stainless Steel materials are heated, wear gloves to protect against thermal burns.

Wear clothing overgarments if available (i.e., chemical resistant clothing, impervious work apron, etc.).

Body protection:

Body protection is required when the product is being machined, cut, welded, or heated to a temperature where metallic vapors are developed.

Personal Protective Equipment recommended includes the use of safety glasses, goggles, or a face shield, rubber, cotton, or leather gloves, a lab coat, smock, or TYVEK type body suit, and a respirator that is selected by the hazards that the worker is exposed to.

When using or handling the product in its final form, no special personal protective equipment is required.

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Respiratory protection:

Not required when handling Stainless Steel products in a solid form.

When workers are facing concentrations above the specified exposure limits, they must use certified respirators.

Dust masks / half-face air purifying respirators with inorganic dust cartridges can be used in areas when Stainless steel is machined or during material grinding operations.

Half-face / full-face air purifying respirators with organic fume cartridges are required when Stainless steel is welded, burned, or heated.

Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators that have been selected after worker fit testing procedures have been completed.

Oxygen levels below 19.5% are considered IDLH by OSHA.

In such atmospheres, use of a full-face pressure demand SCBA or a full-face, supplied air respirator is required.

Thermal hazards:

Wear appropriate thermal protective clothing, when necessary.

Control banding approach:

Not Applicable

Environmental exposure controls:

Not Applicable

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SECTION 9: Physical And Chemical Properties

Appearance (physical state, color, etc.)	Machined Metal Inserts (Stainless Steel / Solid)
Odor	Odorless
pH	Not Measured
Melting point/freezing point	2550 F / N.A.
Initial boiling point and boiling range	Not Measured
Flash point	Non-Flammable
Evaporation rate	Not Measured
Flammability (solid, dusts, gas)	Fine Particles May Be Combustible / Ignitable
Upper/lower flammability or explosive limits	Not Measured
Vapor pressure	Product Is A Solid Metal
Vapor density	Product Is A Solid Metal
Relative density	N/A
Solubility	Insoluble
Partition coefficient: n-octanol/water	N/A
Auto-ignition temperature	Not Measured
Decomposition temperature	N/A
Viscosity	N/A
Specific Gravity	7.45 – 8.02

Additional properties

Physical state	Solid
Color	Yellow, Gray, Blue, Red, or Pink Metal
Explosive properties	Not Explosive
Oxidizing properties	Product Is Not An Oxidizer
Particle characteristics	Not Measured

Supplemental information regarding physical hazard classes

Products will not mix with water (insoluble)
Products will sink in water

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SECTION 10: Stability And Reactivity

10.1 Reactivity:

This product is stable and non-reactive under normal conditions of use, storage, and transport. Hazardous polymerization will not occur.

10.2 Chemical stability:

Material is stable under recommended handling and storage conditions.

10.3 Possibility of hazardous reactions:

Contact with strong acids can release highly flammable hydrogen gas.

10.4 Conditions to avoid:

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. Prevent Stainless steel products from contacting incompatible materials. Minimize dust & fume generation and accumulation.

10.5 Incompatible materials:

Strong acids (Sulfuric, Hydrochloric, Nitric)

10.6 Hazardous decomposition products:

Metal Fumes.
Decomposition is not expected under normal conditions of use and storage.

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SECTION 11: Toxicological Information

11.1 Information on toxicological effects: Stainless Steel

Acute toxicity:

Category 5 / acutely toxic.
May be harmful if swallowed.
Not normally a hazard due to the physical form of the product.

Skin corrosion / irritation:

May cause an allergic skin reaction.
Hot Stainless Steel materials may produce thermal burns to exposed skin.

Serious eye damage / irritation:

Category 2 / causes serious eye irritation.
Elevated material temperatures or mechanical actions (i.e., cutting, machining, grinding, etc.) may form dusts and fumes which may be irritating to the eyes.

Respiratory or skin sensitization:

Category 1 / may cause breathing difficulties if inhaled.
Category 1 / may cause an allergic skin reaction.
Is a respiratory sensitizer.
Stainless Steel dusts may cause discomfort or irritant to the respiratory / gastro-intestinal tract if inhaled or swallowed.

Germ cell mutagenicity:

No data is available to indicate Stainless Steel products, or any components present at a concentration greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity:

Suspected of causing cancer (**Nickel - CAS 7440-02-0 / IARC Group 2B**)

Reproductive toxicity:

Not applicable.

Specific target organ toxicity (STOT) - single exposure:

Not applicable.

Specific target organ toxicity (STOT) - repeated exposure:

Category 1
Causes damage to organs (blood, central nervous system, kidneys, lungs, liver) through prolonged or repeated exposure.

Aspiration hazard:

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Accidental swallowing / aspiration is possible due to the size and shape of the finished Stainless Steel product.

SECTION 12: Ecological Information

12.1 Information on Ecological effects:

Toxicity:

This product has compounds which are toxic to aquatic life (Chromium III, Manganese, Copper, Cobalt). The components of this product are metal and are expected to persist in the environment for long periods of time. Stainless Steel in its final product form presents a limited hazard for the environment.

Persistence and degradability:

This product consists of inorganic compounds which are not biodegradable.

Bioaccumulative potential:

Not measured.

Mobility in soil:

Stainless Steel in its final product form is not mobile in the environment.

Results of PBT and vPvB assessment:

PBT and vPvB Assessment is not required due to less than 10 tons of this product being manufactured and / or exported per year.

This product contains no PBT / vPvB chemical compounds.

This product is not considered to be a biocidal active substance.

Other adverse effects:

No other adverse environmental effects are expected from this product.
Avoid release into the environment.

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SECTION 13: Disposal Considerations

13.1 Information on disposal requirements:

Product disposal:

Dispose of Stainless Steel products and residues in accordance with federal, state, and local regulations.
Recover and recycle Stainless Steel products and residues wherever possible.
Consult State Land Waste Management Authority for Disposal.
Bury products / residues in an authorized landfill (if metal material is not recovered / recycled).

Packaging disposal:

Emptied packaging may retain product residue.
Follow label warnings even after the packaging is emptied.
Contaminated packaging should be transported to an approved waste handling site for recycling or disposal.

Waste treatment:

Transport Stainless Steel products and residues to a licensed Treatment Storage Disposal Facility (TSDF) to allow for recycling, treatment, or disposal activities.

Sewage disposal:

This product and its residues are not suited for disposal in the sewer system.
Dispose in accordance with applicable regulations.

Other disposal recommendations:

This product (if unaltered by use) may be disposed of by treatment at a permitted facility or as advised by local solid waste regulatory authorities.
Stainless Steel products and residual wastes should be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) to determine if levels of **Copper, Nickel, and Cobalt** exceed regulatory limitations and need to be disposed of as hazardous wastes.

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SECTION 14: Transport Information

14.1 Transport data:

DOT (US): Domestic Surface Transportation

UN Number:	Not Applicable
UN Shipping Name:	Not Applicable
Transport Class:	Not Applicable
Packing Group:	Not Applicable
Environmental Hazards:	Marine Pollutant

IMO / IMDG: Ocean Transportation

Not Regulated
Marine Pollutant (IMDG)

ICOA / IATA: Air Transportation

Not Regulated

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SECTION 15: Regulatory Information

15.1 Safety, health, and environmental regulations specific for the products in question:

California Prop. 65 Components:

Cobalt (CAS 7440-48-4), **Nickel** (CAS 7440-02-0)

CERCLA Hazardous Substance List (40 CFR 302.4):

Copper (CAS 7440-50-8), **Nickel** (CAS 7440-02-0)

Massachusetts Right To Know Components:

Copper (CAS 7440-50-8), **Nickel** (CAS 7440-02-0), **Manganese** (CAS 7439-96-5), **Chromium** (CAS 7440-47-3)

New Jersey Right To Know Components:

Copper (CAS 7440-50-8), **Nickel** (CAS 7440-02-0), **Manganese** (CAS 7439-96-5), **Chromium** (CAS 7440-47-3), **Calcium** (CAS 7440-70-2), **Silicon** (CAS 7440-21-3), **Molybdenum** (CAS 7439-98-7), **Aluminum** (CAS 7429-90-5)

Pennsylvania Right To Know Components:

Copper (CAS 7440-50-8), **Nickel** (CAS 7440-02-0), **Manganese** (CAS 7439-96-5), **Chromium** (CAS 7440-47-3), **Calcium** (CAS 7440-70-2), **Silicon** (CAS 7440-21-3), **Molybdenum** (CAS 7439-98-7), **Aluminum** (CAS 7429-90-5)

SARA 311/312 Hazards:

Combustible Dusts, Respiratory or Skin Sensitization, Reproductive Toxicity, Special Target Organ Toxicity
Chromium III (5,000 lbs.), **Copper** (5,000 lbs.), **Nickel** (100 lbs.)

SARA 313 Components:

Copper (CAS 7440-50-8), **Nickel** (CAS 7440-02-0), **Aluminum** (CAS 7429-90-5), **Cobalt** (CAS 7440-48-4), **Chromium III** (CAS 7440-47-3), **Manganese** (CAS 7439-96-5)

Toxic Substances Control Act (TSCA) Inventory:

Copper (CAS 7440-50-8), **Nickel** (CAS 7440-02-0), **Aluminum** (CAS 7429-90-5), **Cobalt** (CAS 7440-48-4), **Chromium III** (CAS 7440-47-3), **Manganese** (CAS 7439-96-5), **Iron** (CAS 7439-89-6), **Silicon** (CAS 7440-21-3), **Calcium** (CAS 7440-70-2), **Molybdenum** (CAS 7439-98-7).

15.2 Chemical Safety Assessment:

A chemical safety assessment was not conducted for this product by the manufacturer or material supplier.

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HMIS Rating:

Stainless Steel Inserts (No Coating)	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	A

NFPA Rating:

Health: 2, Flammability: 0, Instability: 0

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SECTION 16: Other Information

16.1 Further information/disclaimer:

E-Z LOK cannot anticipate all conditions under which this information and its products, or the products of other manufacturers in combination with its products, may be used.

The information included herein is not intended to be all-inclusive as to the appropriate manner and/or conditions of use, handling, and/or storage.

It is the user's responsibility to ensure safe conditions for handling, storage, and disposal of the product, and to assume liability for loss, damage, or expense due to improper use.

The information in this safety data sheet was written based upon knowledge and experience available at the time of authoring.

EZ-LOK makes no representation or warranty, express or implied, including the warranties of merchantability and fitness, for a purpose with respect to the information contained herein.

OSHA Standard 29 CFR 1910.1200 requires that information be provided to workers regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training, and access to written records.

It is EZ-LOK's legal duty to make all information in this safety data sheet available to workers, visitors, vendors, contractors, and/or end users of the product.

16.2 Preparation information:

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