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1. Identification

1.1. Product identifier

Product Identity Nickel Bare Wire & Strip

Alternate Names Midalloy ERNi-1, ERNiCr-3, ERNiCrMo-2, ERNiCrMo-3, ERNiCrMo-4, ERNiCrMo-10,

ERNiCu-7, ERCuNi, ERNiCrCoMo-1, ERNi-Cl, ERNiFe-Cl, ERNiFeMn-Cl, ERNiFeCr-

2, EQNi-1, EQNiCr-3, EQNiCrMo-3, EQNiCrMo-4, EQNiCu-7, EQCuNi, L605

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended useSee Technical Data Sheet.Application MethodSee Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name Midalloy

630 Axminister Drive St. Louis, MO 63026

Emergency

24 hour Emergency Telephone No. (636) 349-6000

Customer Service: Midalloy (800) 776-3300

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Acute Tox. 5;H303 May be harmful if swallowed. (Not adopted by US OSHA)

Eye Irrit. 2;H319 Causes serious eye irritation.

Skin Sens. 1;H317 May cause an allergic skin reaction.

Resp. Sens. 1;H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled.

Carc. 2;H351 Suspected of causing cancer.

STOT RE 1:H372 Causes damage to organs through prolonged or repeated exposure. Specific Target

Organs: (lungs)

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H303 May be harmful if swallowed.

H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

[Prevention]:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

P285 In case of inadequate ventilation wear respiratory protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice / attention.

P314 Get Medical advice / attention if you feel unwell.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P341 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.

P363 Wash contaminated clothing before reuse.

[Storage]:

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Nickel CAS Number: 0007440-02-0	50 - 100	Carc. 2;H351 STOT RE 1;H372 Skin Sens. 1;H317 Aquatic Chronic 3;H412	[1][2]
Molybdenum CAS Number: 0007439-98-7	10 - 25	Not Classified	[1][2]
Copper	10 - 25	Not Classified	[1][2]

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CAS Number: 0007440-50-8			
Chromium compounds (as Cr (III)) CAS Number: 0007440-47-3	10 - 25	Skin Sens. 1;H317 Resp. Sens. 1;H334 Eye Irrit. 2;H319 Aquatic Chronic 4;H413	[1][2]
Iron CAS Number: 0007439-89-6	10 - 25	Not Classified	[1]
Niobium CAS Number: 0007440-03-1	1 - 5	Not Classified	[1]
Tungsten CAS Number: 0007440-33-7	1 - 5	Flam. Sol. 1;H228 SelfHeat. 2;H252	[1][2]
Manganese compounds (as Mn) CAS Number: 0007439-96-5	1 - 5	Not Classified	[1][2]
Titanium CAS Number: 0007440-32-6	1 - 5	Not Classified	[1]
Aluminum (AI) CAS Number: 0007429-90-5	1 - 5	Pyr. Sol. 1;H250 WaterReact. 2;H261	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Overview

4. First aid measures

4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give

artificial respiration. If unconscious place in the recovery position and obtain immediate

medical attention. Give nothing by mouth.

Eyes Immediately flush the eyes with large amounts of water for at least 15 minutes, alternately

lifting the upper and lower eyelids. After 5 minutes, if appropriate, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Call a physician at once.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a

recognized skin cleanser.

Ingestion Do not induce vomiting. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: Inhalation of dust may cause respiratory irritation. Chromium and certain compounds of chromium have been reported to cause damage to the lungs, resulting in

cumulative damage.

Ingestion: May cause gastric disturbances.

Skin: May cause sensitization on repeated contact. Dermatitis has been reported from

repeated contact with chromium compounds.

Eyes: Contact may cause irritation.

Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on

duration and level of exposure.

^[1] Substance classified with a health or environmental hazard.

^[2] Substance with a workplace exposure limit.

^[3] PBT-substance or vPvB-substance.

^{*}The full texts of the phrases are shown in Section 16.

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Electric arc welding may create one or more of the following health hazards:

Fumes and gases can be dangerous to your health.

Arc rays can injure eyes and burn skin.

Electric shock can kill.

See section 2 for further details.

Inhalation May cause allergy or asthma symptoms of breathing difficulties if inhaled.

Eyes Causes serious eye irritation.

Skin May cause an allergic skin reaction.

Ingestion May be harmful if swallowed.

Chronic effects Effects of Overexposure: Fumes and gases can be dangerous to your health.

Short-Term (Acute) Exposure to welding fumes may result in discomfort such as

dizziness, nausea, or dryness or irritation of nose, throat, or eyes.

Long-Term (Chronic) Overexposure may lead to siderosis (iron deposits in the lung) and

is believed by some investigators to affect pulmonary function.

5. Fire-fighting measures

5.1. Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Welding fumes cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded and the process, procedures and electrodes used. Other conditions which influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded (such as paint, plating, or galvanizing), number of welds and volume of work area, quality and amount of ventilation, position of welder's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities).

When the electrode is consumed, the fume and gas decomposition products are different in percent and form from the ingredients listed in Section 3. Fume and gas decomposition products, not the ingredients in the electrode, are important. Decomposition products include those originating from the volatilization, reaction, or oxidation of the materials shown in Section 3 plus those from base metal, coating, etc. as noted above. These components are virtually always present as complex compounds and not as metals (Characterization of Arc Welding Fume; American Welding Society).

Reasonable expected fume constituents from these products would include fluorides and complex oxides of iron, manganese, and silicon and when present, nickel chromium, molybdenum and copper.

Gaseous reaction products may include carbon monoxide and carbon dioxide.

Ozone and nitrogen oxides may be formed by the radiation from the arc.

One recommended way to determine the composition and quantity of fumes and gases to which workers are exposed is to take an air sample inside the welder's helmet, if worn, or in the worker's breathing zone. ANSI/AWS F1.1, available from the American Welding Society, P.O. Box 351040, Miami, FL 33135.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Welding arc and sparks can ignite combustibles and flammables. Refer to American National Standard Z49.1 for fire prevention during the use of welding and allied procedures.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use exhaust system to clear welding fumes. Make sure that inhaled air does not contain fume constituents above permissible exposure levels.

NOTE: for additional safety information see American Standard Z49.1-1983, Safety in Welding and Cutting, and the Welding Handbook, both available from AWS, Inc., 550 N.W. LeJeune Rd., P.O. Box 351040, Miami, FL 33135, Phone (305) 443-9353.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Prevent waste from contaminating surrounding environment. Discard any product residue, disposable container, or liner in an environmentally acceptable manner, in full compliance with Federal, State and Local regulations.

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0007429-90-5	Aluminum (Al)	OSHA	TWA 15 mg/m³ (total) TWA 5 mg/m³ (resp)
		ACGIH	TWA: 1.0 mg/m³ Revised 2008,
		NIOSH	TWA 10 mg/m³ (total) TWA 5 mg/m³ (resp)
		Supplier	No Established Limit
0007439-89-6	Iron	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

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0007439-96-5	Manganese compounds (as Mn)	OSHA	C 5 mg/m³ *See specific listings for specific compounds.
		ACGIH	TWA: 0.2 mg/m ³ R
		NIOSH	TWA 1 mg/m³ ST 3 mg/m³ *See specific listings for specific compounds.
		Supplier	No Established Limit
0007439-98-7	Molybdenum	OSHA	TWA 15 mg/m³ [*Note: The PEL also applies to other insoluble molybdenum compounds (as Mo).]
		ACGIH	TWA: 0.5 mg/m³ (soluble)TWA: 3 mg/m³ (insoluble respirable) 10 mg/m3 (insoluble inhalable)
		NIOSH	no established RELs
		Supplier	No Established Limit
0007440-02-0	Nickel	OSHA	TWA 1 mg/m³ [*Note: The PEL does not apply to Nickel carbonyl.]
		ACGIH	Insoluble TWA: 0.05 mg/m3 A1, 1, (I)Soluble TWA: 0.05 mg/m³ A1, 1, 2B, (I)
		NIOSH	Ca TWA 0.015 mg/m³ [*Note: The REL does not apply to Nickel carbonyl.]
		Supplier	No Established Limit
0007440-03-1	Niobium	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0007440-32-6	Titanium	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0007440-33-7	Tungsten	OSHA	No Established Limit
		ACGIH	TWA: 1 mg/m³ (soluble) 5 mg/m³ (insoluble)STEL: 3 mg/m³ (soluble) 10 mg/m³ (insoluble)
		NIOSH	TWA 5 mg/m³ ST 10 mg/m³ [*Note: The REL also applies to other insoluble tungsten compounds (as W).]
		Supplier	No Established Limit
0007440-47-3	Chromium compounds (as Cr (III))	OSHA	TWA 1 mg/m³ [*Note: The PEL also applies to insoluble chromium salts.]
		ACGIH	TWA: 0.5 mg/m³ (III)
		NIOSH	TWA 0.5 mg/m ³
		Supplier	No Established Limit
0007440-50-8	Copper	OSHA	TWA 1 mg/m³ [*Note: The PEL also applies to other copper compounds (as Cu) except copper fume.]
		ACGIH	TWA: 0.2 mg/m³ (fume) 1 mg/m³ (dusts and mists)
		NIOSH	TWA 1 mg/m³ [*Note: The REL also applies to other copper compounds (as Cu) except Copper fume.]
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0007429-90-5	Aluminum (Al)	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No

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		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007439-89-6	Iron	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007439-96-5	Manganese compounds (as Mn)	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007439-98-7	Molybdenum	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007440-02-0	Nickel	OSHA	Select Carcinogen: Yes
		NTP	Known: Yes; Suspected: Yes
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
0007440-03-1 Niobium	OSHA	Select Carcinogen: No	
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007440-32-6	Titanium	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007440-33-7	Tungsten	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007440-47-3	Chromium compounds (as Cr (III))	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0007440-50-8	Copper	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

RespiratoryUse respirable fume respiratory or air supplied respirator when welding in a confined space

or where local exhaust or ventilation does not keep exposure below the recommended

exposure limit.

Eyes Wear helmet or use face shield with filter lens. Provide protective screens and flash

goggles, if necessary, to shield others. As a rule of thumb, start with a shade that is too dark to see the weld zone. Then go to the next lighter shade, which gives sufficient view of

the weld zone.

Skin Wear hand, head, and body protection, which help to prevent injury from radiation, sparks,

and electrical shock. See ANSI Z49.1. At a minimum this includes welder's gloves and a protective face shield, and may include arm protectors, aprons hats, shoulder protection, as well as dark substantial clothing. Train the welder not to touch live electrical parts and to

insulate himself from work and ground.

the worker's breathing zone and the general area. Train the welder to keep his head out of

the fumes.

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Other Work Practices Read and understand the manufacturer's instructions and the precautionary label on the

product.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or

using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance Solid

Odor Not Specified Odor threshold Not determined pН Not Measured Melting point / freezing point Not Measured Initial boiling point and boiling range Not Measured Flash Point Not Measured **Evaporation rate (Ether = 1)** Not Measured Flammability (solid, gas) Not Applicable

Upper/lower flammability or explosive limits Lower Explosive Limit: Not Measured

Upper Explosive Limit: Not Measured

Vapor pressure (Pa) Not Measured **Vapor Density** Not Measured **Specific Gravity** Not Measured **Solubility in Water** Not Measured Partition coefficient n-octanol/water (Log Kow) Not Measured **Auto-ignition temperature** Not Measured Not Measured **Decomposition temperature** Viscosity (cSt) Not Measured

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

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10.6. Hazardous decomposition products

Welding fumes cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded and the process, procedures and electrodes used. Other conditions which influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded (such as paint, plating, or galvanizing), number of welds and volume of work area, quality and amount of ventilation, position of welder's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities).

When the electrode is consumed, the fume and gas decomposition products are different in percent and form from the ingredients listed in Section 3. Fume and gas decomposition products, not the ingredients in the electrode, are important. Decomposition products include those originating from the volatilization, reaction, or oxidation of the materials shown in Section 3 plus those from base metal, coating, etc. as noted above. These components are virtually always present as complex compounds and not as metals (Characterization of Arc Welding Fume; American Welding Society).

Reasonable expected fume constituents from these products would include fluorides and complex oxides of iron, manganese, and silicon and when present, nickel chromium, molybdenum and copper.

Gaseous reaction products may include carbon monoxide and carbon dioxide.

Ozone and nitrogen oxides may be formed by the radiation from the arc.

One recommended way to determine the composition and quantity of fumes and gases to which workers are exposed is to take an air sample inside the welder's helmet, if worn, or in the worker's breathing zone. ANSI/AWS F1.1, available from the American Welding Society, P.O. Box 351040, Miami, FL 33135.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Nickel - (7440-02-0)	No data available	No data available	No data available	No data available	No data available
Molybdenum - (7439-98-7)	No data available	No data available	No data available	No data available	No data available
Copper - (7440-50-8)	2,500.00, Rat - Category: 5	>2,000.00, Rat - Category: 5	No data available	5.11, Rat - Category: NA	No data available
Chromium compounds (as Cr (III)) - (7440-47-3)	422.00, Rat - Category: 4	No data available	No data available	No data available	No data available
Iron - (7439-89-6)	30,000.00, Rat - Category: NA	No data available	No data available	No data available	No data available
Niobium - (7440-03-1)	No data available	No data available	No data available	No data available	No data available
Tungsten - (7440-33-7)	No data available	No data available	No data available	No data available	No data available
Manganese compounds (as Mn) - (7439-96-5)	9,000.00, Rat - Category: NA	500.00, Rabbit - Category: 3	19.00, Rat - Category: 4	No data available	No data available
Titanium - (7440-32-6)	No data available	No data available	No data available	No data available	No data available
Aluminum (AI) - (7429-90-5)	No data available	No data available	No data available	No data available	No data available

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Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	5	May be harmful if swallowed. (Not adopted by US OSHA)
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	1	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity		Not Applicable
Carcinogenicity	2	Suspected of causing cancer.
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable
STOT-repeated exposure	1	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard		Not Applicable

12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Nickel - (7440-02-0)	Not Available	Not Available	Not Available
Molybdenum - (7439-98-7)	Not Available	Not Available	Not Available
Copper - (7440-50-8)	0.0103, Pimephales promelas	0.0025, Daphnia magna	0.018 (72 hr), Pseudokirchneriella subcapitata
Chromium compounds (as Cr (III)) - (7440-47-3)	77.50, Pimephales promelas	1.20, Daphnia magna	580.00 (72 hr), Chlorella pyrenoidosa
Iron - (7439-89-6)	Not Available	Not Available	Not Available
Niobium - (7440-03-1)	Not Available	Not Available	Not Available
Tungsten - (7440-33-7)	Not Available	Not Available	Not Available
Manganese compounds (as Mn) - (7439-96-5)	40.00, Daphnia magna	Not Available	Not Available

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Titanium - (7440-32-6)	Not Available	Not Available	Not Available
Aluminum (AI) - (7429-90-5)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable

14.5. Environmental hazards

IMDG Marine Pollutant: No

14.6. Special precautions for user

No further information

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected

regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA

CA) Inventory.

WHMIS Classification D2A

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US EPA Tier II Hazards Fire: No

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): Yes Delayed (Chronic): Yes

EPCRA 311/312 Chemicals and RQs (lbs):

Chromium compounds (as Cr (III)) (5,000.00)

Copper (5,000.00) Nickel (100.00)

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Aluminum (Al)

Chromium compounds (as Cr (III))

Copper

Manganese compounds (as Mn)

Nickel

Proposition 65 - Carcinogens (>0.0%):

Nickel

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Aluminum (AI)

Chromium compounds (as Cr (III))

Copper

Manganese compounds (as Mn)

Molybdenum

Nickel

Titanium

Tungsten

Pennsylvania RTK Substances (>1%):

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Aluminum (Al)

Chromium compounds (as Cr (III))

Copper

Manganese compounds (as Mn)

Molybdenum

Nickel

Tungsten

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H228 Flammable solid.

H250 Catches fire spontaneously if exposed to air.

H252 Self-heating in large quantities; may catch fire.

H261 In contact with water releases flammable gases.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Midalloy believes that the information contained in this SDS is accurate. However, Midalloy does not express or imply any warranty with respect to this information.

End of Document