

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/26/2017 Reviewed on 07/26/2017

1 Identification

- · Product Identifier
- · Trade name: Standard Holder Body Material
- Relevant identified uses of the substance or mixture and uses advised against:

Use with coolant or enclosed machine with ventilation

- · Product Description Cutting Tool Holder Bodies
- · Application of the substance / the mixture: Cutting Tool Holder Bodies that hold cutting tool inserts
- Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier:

Allied Machine & Engineering Corp.

120 Deeds Drive

Dover, Ohio 44622-0036 Phone: 330-343-4283 Fax: 330-602-3400 www.alliedmachine.com

· Emergency telephone number: Ron Sundall 330-343-4283

2 Hazard(s) Identification

· Classification of the substance or mixture:



GHS08 Health hazard

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

Carc. 2 H351 Suspected of causing cancer.

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



GHS07

Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.Skin Sens. 1 H317 May cause an allergic skin reaction.STOT SE 3 H335 May cause respiratory irritation.

- · Label elements:
- GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





GHS07 GHS08

- · Signal word: Danger
- Hazard-determining components of labeling:

Ferric oxide Nickel Cobalt



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Selenium

Titanium

· Hazard statements:

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

Obtain special instructions before use. P201

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

P260 Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. P261

P264 Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. P270 Use only outdoors or in a well-ventilated area. P271

Contaminated work clothing must not be allowed out of the workplace. P272 Wear protective gloves/protective clothing/eye protection/face protection. P280

[In case of inadequate ventilation] wear respiratory protection. P284

IF ON SKIN: Wash with plenty of water. P302+P352

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention. P308+P313 Call a POISON CENTER/doctor if you feel unwell. P312 P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P332+P313 If skin irritation occurs: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention. P337+P313

If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P342+P311

Take off contaminated clothing and wash it before reuse. P362+P364

Wash contaminated clothing before reuse. P363

Store in a well-ventilated place. Keep container tightly closed. P403+P233

Store locked up. P405

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Unknown acute toxicity:

54.5 % of the mixture consists of component(s) of unknown toxicity.

· Classification system:

NFPA ratings (scale 0 - 4)



Health = 2 Fire = 0Reactivity = 0

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· HMIS-ratings (scale 0 - 4)



· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

· Non-hazardous components:		
CAS: 7440-62-2 RTECS: YW 1355000	Vanadium	<18%
CAS: 7439-98-7 RTECS: QA 4680000	Molybdenum	<10%
CAS: 7440-44-0 RTECS: FF 5250100	Carbon	<4%

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

Dangerous Components:		
CAS: 1309-37-1 Ferric oxide	<90%	
RTECS: NO 7400000 🐠 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335		
CAS: 7440-02-0 Nickel	<18%	
CAS: 7440-47-3 Chromium RTECS: GB 4200000	<13%	
CAS: 7440-33-7 RTECS: YO 7175000 Flam. Sol. 1, H228; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	<11%	
CAS: 7440-48-4 RTECS: GF 8750000 Resp. Sens. 1, H334; Carc. 2, H351; Skin Sens. 1, H317; Aquatic Chronic 4, H413; Combustible Dust	<11%	
CAS: 7440-21-3 Silicon	<5%	
CAS: 7429-90-5 Aluminium RTECS: BD 0330000	<3%	
CAS: 7439-96-5 Manganese RTECS: OO 9275000	<3%	
CAS: 7782-49-2 Selenium Acute Tox. 3, H301; Acute Tox. 2, H330; STOT RE 2, H373; Aquatic Chronic 4, H413	<2%	
CAS: 7440-50-8 RTECS: GL 5325000 Copper Flam. Sol. 1, H228; STOT SE 3, H335; Aquatic Acute 3, H402; Aquatic Chronic 4, H413	<1.5%	
CAS: 7440-32-6 Titanium RTECS: XR 1700000	<0.1%	
CAS: 7439-92-1 Lead RTECS: OF 7525000 Acute Tox. 2, H330; & Carc. 2, H351; Acute Tox. 4, H302	<0.1%	

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CAS: 7440-03-1 Niobium < 0.1% RTECS: QT9900000 Flam. Sol. 1, H228; Combustible Dust

· Additional information:

In order for this product to constitute a physical hazard or a health hazard it would have to be subjected to subsequent operations such as heating to above 2600° F, cutting and/or grinding which may cause some of the ingredients to change to a form, which could affect exposed workers.

4 First-Aid Measures

- · Description of first aid measures:
- After inhalation: Supply fresh air; consult doctor if symptoms persist.
- · After skin contact:

Wash with soap and water.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Seek medical attention if large quantities of material have been ingested. (Ingestion of significant amounts of metal is unlikely).

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed:

Excessive inhalation of metallic fumes and dust may be irritating to respiratory passages. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever." Symptoms consist of chills and fever, a metallic taste in the mouth, and dryness and irritation of the throat. The symptoms come on a few hours after excessive exposures and usually last from 12 to 48 hours. Long-term effects from metal fume fever have not been noted. Iron oxide, copper and manganese have been associated with causing metal fume fever.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media:
- · Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters:
- Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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· Protective Action Criteria for Chemicals

PAC-1:		
	Ferric oxide	15 mg/m3
7440-02-0	Nickel	4.5 mg/m3
7440-62-2	Vanadium	3 mg/m3
7440-47-3	Chromium	1.5 mg/m3
7440-33-7	Tungsten	10 mg/m3
7440-48-4	Cobalt	0.18 mg/m3
7439-98-7	Molybdenum	30 mg/m3
7440-21-3	Silicon	45 mg/m3
7440-44-0	Carbon	6 mg/m3
7439-96-5	Manganese	3 mg/m3
7782-49-2	Selenium	0.6 mg/m3
7440-50-8	Copper	3 mg/m3
7440-03-1	Niobium	30 mg/m3
7440-32-6	Titanium	30 mg/m3
7439-92-1	Lead	0.15 mg/m3
PAC-2:		<u>'</u>
1309-37-1	Ferric oxide	360 mg/m3
7440-02-0	Nickel	50 mg/m3
7440-62-2	Vanadium	5.8 mg/m3
7440-47-3	Chromium	17 mg/m3
7440-33-7	Tungsten	330 mg/m3
7440-48-4	Cobalt	2 mg/m3
7439-98-7	Molybdenum	330 mg/m3
7440-21-3	Silicon	100 mg/m3
7440-44-0	Carbon	330 mg/m3
7439-96-5	Manganese	5 mg/m3
7782-49-2	=	6.6 mg/m3
7440-50-8	Copper	33 mg/m3
7440-03-1		330 mg/m3
7440-32-6	Titanium	330 mg/m3
7439-92-1	Lead	120 mg/m3
PAC-3:		
1309-37-1	Ferric oxide	2,200 mg/m3
7440-02-0	Nickel	99 mg/m3
7440-62-2	Vanadium	35 mg/m3
7440-47-3	Chromium	99 mg/m3
7440-33-7	Tungsten	2,000 mg/m3
7440-48-4	_	20 mg/m3
7439-98-7	Molybdenum	2,000 mg/m3
7440-21-3	·	630 mg/m3



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7440-44-0	Carbon	2,000 mg/m3
7439-96-5	Manganese	1,800 mg/m3
7782-49-2	Selenium	40 mg/m3
7440-50-8	Copper	200 mg/m3
7440-03-1	Niobium	2,000 mg/m3
7440-32-6	Titanium	2,000 mg/m3
7439-92-1	Lead	700 mg/m3

7 Handling and Storage

- · Handling
- Precautions for safe handling:

Prevent formation of dust.

Thorough dedusting.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities:
- Storage
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

· · · · · · · · · · · · · · · · · · ·			
1309	1309-37-1 Ferric oxide		
PEL	Long-term value: 10* 15** 5*** mg/m³ *Fume; Rouge: **Total dust, ***respirable		
	Long-term value: 5 mg/m³ Dust & fume, as Fe		
TLV	Long-term value: 5* mg/m³ *as respirable fraction		
7440	-02-0 Nickel		
PEL	Long-term value: 1 mg/m³		
	Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A		
	Long-term value: 1.5* mg/m³ elemental, *inhalable fraction		
7440-47-3 Chromium			
PEL	Long-term value: 1 mg/m³		

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REL	Long-term value: 0.5* mg/m³
T 1.1/	*metal+inorg.compds.as Cr;See Pocket Guide App. C
ILV	Long-term value: (0.5) 0.5* mg/m³ *inhalable fraction, as Cr(0)
7440	-33-7 Tungsten
PEL	and insoluble compounds, as We
REL	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as W
TLV	Long-term value: 3* mg/m³ as W; * respirable fraction
7440	-48-4 Cobalt
PEL	Long-term value: 0.1* mg/m³ as Co; *for metal dust and fume
REL	Long-term value: 0.05 mg/m³ as Co; metal dust & fume
TLV	Long-term value: (0.02) NIC-0.02* mg/m³ *inh. fraction; NIC-Skin, DSEN, RSEN (BEI)
7439	-98-7 Molybdenum
PEL	Long-term value: 15* mg/m³ *Total dust, as Mo
TLV	Long-term value: 10* 3** mg/m³ as Mo; *inhalable fraction ** respirable fraction
7440	-21-3 Silicon
PEL	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction
TLV	TLV withdrawn
7439	-96-5 Manganese
PEL	Ceiling limit value: 5 mg/m³ as Mn
REL	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ fume, as Mn
TLV	Long-term value: 0.02* 0.1** mg/m³ as Mn; *respirable **inhalable fraction
	-90-5 Aluminium
PEL	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m³ as Al; *as respirable fraction
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7782	-49-2 Selenium
PEL	Long-term value: 0.2 mg/m³
DEI	as Se Long-term value: 0.2 mg/m³
IXLL	as Se
TLV	Long-term value: 0.2 mg/m³ as Se
7440	-50-8 Copper
PEL	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume
REL	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume
TLV	Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume; as Cu
7439	-92-1 Lead
PEL	Long-term value: 0.05* mg/m³ *see 29 CFR 1910.1025
REL	Long-term value: 0.05* mg/m³ *8-hr TWA ;See PocketGuide App.C
TLV	Long-term value: 0.05* mg/m³ *and inorganic compounds, as Pb; BEI
· Ingre	edients with biological limit values:
7440	-48-4 Cobalt
	15 μg/L urine end of shift at end of workweek Cobalt (background)
	1 µg/L blood
	end of shift at end of workweek Cobalt (background, semi-quantitative)
	-92-1 Lead
	30 μg/100 ml blood not critical Lead
	10 μg/100 ml blood not critical
	Lead (women of child bearing potential)

· Additional information: The lists that were valid during the creation of this SDS were used as basis.

· Exposure controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

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- · Personal protective equipment:
- · General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

If fumes, misting, or dust conditions occur, consult a professional Industrial Hygienist. Provide NIOSH approved respirators.

· Protection of hands:



Protective gloves

· Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:



Safety glasses

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:

Form: Solid

Color: Not determined.
Odor: Odorless
Odor threshold: Not determined.
pH-value: Not applicable.

· Change in condition

Melting point/Melting range: 2600-2800°C (4712-5072 °F)

Boiling point/Boiling range: Not determined.

· Flash point: None

· Flammability (solid, gaseous): Not determined.

· Ignition temperature:

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.Vapor pressure: Not applicable.

• **Density @ 20°C (68 °F):** 7.4-8.7 g/cm³ (61.753-72.60 lbs/gal)

• Relative density: Not determined.

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Vapor density: Not applicable.Evaporation rate: Not applicable.

· Solubility in / Miscibility with:

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

• Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No known hazardous reactions
- · Conditions to avoid: Avoid exposure to generated dust and/or fumes.
- · Incompatible materials:

Strong acids, metal amides, barium carbide, bromine pentafluoride, calcium carbide, lithium silicon, metals, nickel, nitric acid, sodium, nitrogen trichloride, oxygen, potassium, potassium bromate, rubidium carbide, zinc, silver bromate, strontium carbide, thorium carbide, uranium.

· Hazardous decomposition products: Metallic Oxides

11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:		
	1309-37-1 Ferric oxide		
Oral	LD50	>5,000 mg/kg (Rat)	
7440-47-3	Chromium		
Inhalative	LC50/96 hours	14.3 mg/l (Cyprinus carpio)	
7440-33-7	Tungsten		
Oral	LD50	2,000 mg/kg (Rat)	
Dermal	LD50	2,000 mg/kg (Rat)	
Inhalative	LC50/4 h	5.4 mg/l (Rat)	
7440-48-4	Cobalt		
Oral	LD50	6,170 mg/kg (Rat)	
7440-21-3	Silicon	<u>'</u>	
Oral	LD50	3,160 mg/kg (Rat)	
7439-96-5	Manganese	·	
Oral	LD50	9,000 mg/kg (Rat)	
7429-90-5	Aluminium		
Oral	LD50	>2,000 mg/kg (Rat)	
Inhalative	LC50/4 h	888 mg/l (Rat)	
7782-49-2	Selenium		
Oral	LD50	6,700 mg/kg (Rat)	

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7440-03-1 Niobium		
Oral	Toxic Dose Low	>10,000,000 µg/kg (Mouse)
		>10,000,000 μg/kg (Rat)
7439-92-1 Lead		
Inhalativ	ve LC50/96 hours (stati	ic) 0.44 mg/l (Cyprinus carpio)
		1.17 mg/l (Oncorhynchus mykiss)

· Primary irritant effect:

On the skin:

Irritant to skin and mucous membranes.

May cause an allergic skin reaction.

· On the eye:

Irritating effect.

Causes serious eye irritation.

· Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis.

· Carcinogenic categories:

ARC (International Agency for Research on Cancer):	
309-37-1 Ferric oxide	3
7440-02-0 Nickel	28
7440-47-3 Chromium	3
7440-48-4 Cobalt	21
7782-49-2 Selenium	3
7439-92-1 Lead	21
NTP (National Toxicology Program):	
7440-02-0 Nickel	F
7440-48-4 Cobalt	F
7439-92-1 Lead	F
OSHA-Ca (Occupational Safety & Health Administration):	
None of the ingredients are listed.	

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12 Ecological Information

· Toxicity:

· Aquatic toxicity:
7440-02-0 Nickel
EC50 1 mg/l (Water flea)
7440-47-3 Chromium
EC50 0.07 mg/l (Water flea)
7439-96-5 Manganese
EC50 40 mg/l (Water flea)
7782-49-2 Selenium
EC50 99 mg/l (Green algae)

0.43 mg/l (Water flea) 7440-50-8 Copper

EC50 0.04-0.05 mg/l (Water flea)

- · Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods:
- · Recommendation:

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

- Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

14 Transport Information

· UN-Number:

· DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

UN proper shipping name:

· DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

· Transport hazard class(es):

· DOT, ADR/ADN, ADN, IMDG, IATA

· Class: Non-Regulated Material

· Packing group:

· **DOT, ADR/ADN, IMDG, IATA**Non-Regulated Material

Environmental hazards: Not applicable.

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· Special precautions for user: Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

Non-Regulated Material · UN "Model Regulation":

15 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:

· SARA (Superfund Amendments and Reauthorization):	
· Section 35	55 (extremely hazardous substances):
None of the	e ingredients are listed.
· Section 31	13 (Specific toxic chemical listings):
7440-02-0	Nickel
7440-62-2	Vanadium
7440-47-3	Chromium
7440-48-4	Cobalt
7439-96-5	Manganese
7429-90-5	Aluminium
7782-49-2	Selenium
7440-50-8	Copper
7439-92-1	Lead
· TSCA (To	xic Substances Control Act):
All ingredients are listed or exempt from listing.	
California Drangaitian CE.	

· California Proposition 65:			
· Chemicals	s known to cause cancer:		
7440-02-0	Nickel		
7440-48-4	Cobalt		
7439-92-1	Lead		
· Chemicals	s known to cause reproductive toxicity for females:		
7439-92-1	Lead		
Chemicals	s known to cause reproductive toxicity for males:		
7439-92-1	Lead		
Chemicals	s known to cause developmental toxicity:		
7439-92-1	Lead		
· New Jerse	· New Jersey Right-to-Know List:		

· New Jerse	· New Jersey Right-to-Know List:		
1309-37-1	Ferric oxide		
7440-02-0	Nickel		
7440-62-2	Vanadium		
7440-47-3	Chromium		
7440-33-7	Tungsten		
7440-48-4	Cobalt		
7439-98-7	Molybdenum		
7440-21-3	Silicon		
7439-96-5	Manganese		
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7429-90-5	Aluminium	
7782-49-2	Selenium	
7440-50-8	Copper	
7440-32-6	Titanium	
7439-92-1	Lead	
New Jerse	ey Special Hazardous Substance List:	
7440-02-0	Nickel	CA
7440-47-3	Chromium	F3
7440-33-7	Tungsten	F3
7440-48-4	Cobalt	CA, F3
7440-21-3	Silicon	F3
7439-96-5	Manganese	F3, R1
7429-90-5	Aluminium	F3, R1
7440-32-6	Titanium	F3, R1
7439-92-1	Lead	CA, TE
Pennsylva	ania Right-to-Know List:	
-	Ferric oxide	
7440-02-0	Nickel	
7440-62-2	Vanadium	
7440-47-3	Chromium	
7440-33-7	Tungsten	
7440-48-4	Cobalt	
7439-98-7	Molybdenum	
7440-21-3	Silicon	
7439-96-5	Manganese	
7429-90-5	Aluminium	
7782-49-2	Selenium	
7440-50-8	Copper	
7439-92-1	Lead	
Donnard	ania Special Hazardous Substance List:	
rennsylva	ina opeolai nazaraoas oubstance Elst.	
7440-02-0		ES
7440-02-0		ES E
7440-02-0 7440-62-2	Nickel	Е
7440-02-0 7440-62-2	Nickel Vanadium Chromium	E
7440-02-0 7440-62-2 7440-47-3 7440-48-4	Nickel Vanadium Chromium	E ES
7440-02-0 7440-62-2 7440-47-3 7440-48-4 7439-96-5	Nickel Vanadium Chromium Cobalt	E ES E
7440-02-0 7440-62-2 7440-47-3 7440-48-4 7439-96-5	Nickel Vanadium Chromium Cobalt Manganese Aluminium	E ES E
7440-02-0 7440-62-2 7440-47-3 7440-48-4 7439-96-5 7429-90-5	Nickel Vanadium Chromium Cobalt Manganese Aluminium Selenium	ES E E

(Contd. on page 15)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/26/2017 Reviewed on 07/26/2017

Trade name: Standard Holder Body Material

· Carcinogenic categories:

· EPA (Envi	ronmental Protection Agency):	
7440-47-3	Chromium	D
7439-96-5	Manganese	D
7782-49-2	Selenium	D
7440-50-8	Copper	D
7439-92-1	Lead	B2
· TLV (Thre	shold Limit Value established by ACGIH):	<u>'</u>
1309-37-1	Ferric oxide	A4
7440-02-0	Nickel	A5
7440-47-3	Chromium	A4
7440-48-4	Cobalt	A3
7439-98-7	Molybdenum	A3
7429-90-5	Aluminium	A4
7439-92-1	Lead	A3
NIOSH-Ca (National Institute for Occupational Safety and Health):		
7440-02-0	Nickel	

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





GHS07 GHS08

- · Signal word: Danger
- · Hazard-determining components of labeling:

Ferric oxide Nickel Cobalt Selenium

Titanium

· Hazard statements:

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

P201 Obtain special instructions before use.

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

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

(Contd. on page 16)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/26/2017 Reviewed on 07/26/2017

Trade name: Standard Holder Body Material

P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 07/26/2017 / 2

regulations.

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value PEL: Permissible Exposure Limit



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 07/26/2017 Issue date 07/26/2017

Trade name: Standard Holder Body Material

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Sol. 1: Flammable solids - Category 1

Flam. Sol. 2: Flammable solids - Category 2

Water-react. 1: Substances and mixtures which in contact with water emit flammable gases - Category 1

Acute Tox. 3: Acute toxicity - Category 3

Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 2

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

* Data compared to the previous version altered.

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