

# SAFETY DATA SHEET

### 1. Identification

Product identifier Nickel Hard Facing

Other means of identification

**Synonyms** PF20 \* PF25 \* PF35 \* PF40 \* PF50 \* PF60 \* Alloy 60 \* PX260 \* BNi2 \* BNi5

Recommended use Not available.
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Ametek Specialty Metals

**Address** 1085 Rte 519

Eighty Four, PA 15330

US

Telephone 1-724-225-2658
E-mail Not available.

Emergency phone number 1-703-527-3887

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

Carcinogenicity Category 2

Specific target organ toxicity, repeated Category 1 (Lung)

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

OSHA defined hazards Combustible dust

Label elements



Signal word Danger

Hazard statement May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs

(Lung) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

May form combustible dust concentrations in air.

**Precautionary statement** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Prevent dust accumulation to minimize explosion hazard. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Observe good industrial

hygiene practices.

**Response** If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse. If exposed or concerned: Get medical

advice/attention. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

None known.

Supplemental information

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Nickel	7440-02-0	65 - 97
Chromium	7440-47-3	0 - 18
Iron	7439-89-6	0 - 7.5
Boron	7440-42-8	1.0 - 4.5
Silicon	7440-21-3	0 - 5.5
Carbon	7440-44-0	0 - 1.20
Niobium	7440-03-1	0 - 0.8
Copper	7440-50-8	0 - 0.5
Molybdenum	7439-98-7	0 - 0.5
Tungsten	7440-33-7	0 - 0.5
Sulfur	7704-34-9	0 - 0.3
Manganese	7439-96-5	0 - 0.2
Phosphorus	7723-14-0	0 - 0.04

## **Composition comments**

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The alloy contains additional alloying elements at concentrations below disclosure requirements. At temperatures above the melting point the alloys may liberate fumes containing oxides of alloying elements.

## 4. First-aid measures

Inhalation

Skin contact

Eye contact

Ingestion

Most important

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur.

Dusts may irritate the respiratory tract, skin and eyes. Coughing. Discomfort in the chest. Shortness of breath. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Special powder against metal fires. Dry sand.

Do not use water or halogenated extinguishing media. Do not use water on molten metal: Explosion hazard could result.

During fire, gases hazardous to health may be formed. Solid metal is not flammable; however, finely divided metallic dust or powder may form an explosive mixture with air. In a fire, nickel may form nickel carbonyl, a highly toxic substance and known carcinogen.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire fighting

equipment/instructions

Move containers from fire area if you can do it without risk.

General fire hazards

Powder may burn. Dust is an explosion hazard.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.

Methods and materials for containment and cleaning up

Avoid dust formation. Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. The vacuum cleaner should be explosion-proofed. If not possible, gently moisten dust before it is collected with shovel, broom or the like. This material and its container must be disposed of as hazardous waste.

**Environmental precautions** 

Avoid release to the environment. Do not contaminate water.

## 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Persons susceptible for allergic reactions should not handle this product. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	PEL	1 mg/m3	
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
Manganese (CAS 7439-96-5)	Ceiling	5 mg/m3	Fume.
Molybdenum (CAS 7439-98-7)	PEL	15 mg/m3	Total dust.
Nickel (CAS 7440-02-0)	PEL	1 mg/m3	
Phosphorus (CAS 7723-14-0)	PEL	0.1 mg/m3	
Silicon (CÁS 7440-21-3)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910.	1000)	-	
Components	Туре	Value	
Carbon (CAS 7440-44-0)	TWA	15 mppcf	
ACGIH			
Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
US. ACGIH Threshold Limit Values	3		
Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	

Nickel Hard Facing SDS US

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
		0.2 mg/m3	Fume.
Manganese (CAS 7439-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
ŕ		0.02 mg/m3	Respirable fraction.
Molybdenum (CAS 7439-98-7)	TWA	3 mg/m3	Respirable fraction.
·		10 mg/m3	Inhalable fraction.
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.
Phosphorus (CAS 7723-14-0)	TWA	0.1 mg/m3	
Tungsten (CAS 7440-33-7)	STEL	10 mg/m3	
	TWA	5 mg/m3	

### **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Туре	Value	Form
Carbon (CAS 7440-44-0)	TWA	2.5 mg/m3	Respirable.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
Manganese (CAS 7439-96-5)	STEL	3 mg/m3	Fume.
	TWA	1 mg/m3	Fume.
Nickel (CAS 7440-02-0)	TWA	0.015 mg/m3	
Phosphorus (CAS 7723-14-0)	TWA	0.1 mg/m3	
Silicon (CAS 7440-21-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Tungsten (CAS 7440-33-7)	STEL	10 mg/m3	
	TWA	5 mg/m3	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

Follow standard monitoring procedures.

Appropriate engineering controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high. Special ventilation should be used to convey finely divided metallic dust generated by grinding, sawing etc., in order to eliminate explosion hazards.

### Individual protection measures, such as personal protective equipment

supplier.

Eye/face protection

Wear dust-resistant safety goggles where there is danger of eye contact. In addition to safety glasses or goggles, a welding helmet with appropriate shaded shield is required during welding, burning, or brazing. A face shield is recommended, in addition to safety glasses or goggles, during sawing, grinding, or machining.

Skin protection

Hand protection

burning, or brazing. A face shield is recommended, in addition to safety glasses or goggles, during sawing, grinding, or machining.

Wear suitable protective gloves to prevent cuts and abrasions. When material is heated, wear gloves to protect against thermal burns. Suitable gloves can be recommended by the glove

Other

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter. When engineering controls are not sufficient to lower exposure levels below the applicable exposure limit, use a NIOSH approved respirator for dusts. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever work place conditions warrant a respirator's use. Seek advice from local supervisor.

Thermal hazards

General hygiene considerations

Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Private clothes and working clothes should be kept separately. Contaminated uniforms should be laundered separately from other clothing to prevent potential cross-contamination. If possible, an industrial laundry service should be used to eliminate the possibility of contaminating the home environment. Handle in accordance with good industrial hygiene and safety practices. Observe any medical surveillance requirements.

## 9. Physical and chemical properties

**Appearance** 

Physical state Solid.
Form Powder.
Color Gray.
Odor None.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Combustible dust.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 8.6 - 13.5

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Keep away from heat, sparks and open flame. Minimize dust generation and accumulation.

Contact with incompatible materials.

Incompatible materials Strong acids. Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** Dust may irritate respiratory system. May cause damage to organs by inhalation.

**Skin contact** May cause an allergic skin reaction.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Dusts may irritate the respiratory tract, skin and eyes. Coughing. Discomfort in the chest. Shortness of breath. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Nickel Hard Facing SDS US

Acute toxicity Not expected to be acutely toxic

Acute toxicity	Not expected to be acutely to	kic.	
Components	Species	Test Results	
Boron (CAS 7440-42-8)			
Acute			
Oral			
LD50	Rat	650 mg/kg	
Carbon (CAS 7440-44-0)			
Acute			
Oral			
LD50	Rat	> 10000 mg/kg	
Manganese (CAS 7439-96-5)			
Acute			
Inhalation			
LC50/LC90	Rat	> 1500 mg/m³, 4 hours	
Oral			
LD50	Rat	9000 mg/kg	
Silicon (CAS 7440-21-3)			
Acute			
Oral			
LD50	Rat	3160 mg/kg	
Sulfur (CAS 7704-34-9)			
Acute			
Dermal			
LD50	Rat	> 2000 mg/kg, 24 Hours	
Inhalation			
LC50	Rat	> 5.43 g/m3, 4 Hours	
Oral			
LD50	Rat	> 2200 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may c	ause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may		
Respiratory or skin sensitization	า		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin rea	action.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer.		
-	Evaluation of Carcinogenicity		
Chromium (CAS 7440-47 Nickel (CAS 7440-02-0)	(-3)	3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans.	
NTP Report on Carcinogens	3		
Nickel (CAS 7440-02-0)		Known To Be Human Carcinogen.  Reasonably Anticipated to be a Human Carcinogen.	
OSHA Specifically Regulate  Not regulated.	d Substances (29 CFR 1910.1	001-1050)	

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs (Lung) through prolonged or repeated exposure.

Due to the physical form of the product it is not an aspiration hazard. **Aspiration hazard** 

SDS US Nickel Hard Facing

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Iron (CAS 7439-89-6)			
Aquatic			
Fish	LC50	Channel catfish (Ictalurus punctatus)	> 500 mg/l, 96 Hours
Nickel (CAS 7440-02-0)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1 mg/l, 48 hours
			1 mg/l, 48 Hours
	LC50	Calanoid copepod (Eurytemora affinis)	7.35 - 12.12 mg/l, 96 hours
Phosphorus (CAS 7723-1	14-0)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.025 - 0.037 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.002 - 0.006 mg/l, 96 hours
			0.001 - 0.004 mg/l, 96 hours
sistence and degradabili	ity The produ	uct is not expected to be readily biodegradable	1

Persistence and degradability **Bioaccumulative potential** 

No data available. Metal powders in water or soil may form metal oxides or other metal compounds

that could become bioavailable and harm aquatic or terrestrial organisms.

Mobility in soil

Alloys in massive forms are not mobile in the environment.

Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

D007: Waste Chromium Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Recover and recycle, if practical. Solid metal and alloys in the form of particles may be reactive. Its hazardous characteristics, including fire and explosion, should be determined prior to disposal.

Dispose of in accordance with local regulations.

Environmentally hazardous substances, solid, n.o.s.

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

UN3077 **UN number** 

**UN proper shipping name** 

Transport hazard class(es)

Class 9

Subsidiary risk Label(s) 9 Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33

155 **Packaging exceptions** Packaging non bulk 213 240 Packaging bulk

Nickel Hard Facing

Reportable Quantity (RQ) for Nickel must be 100 LBS contained per package. Non-Bulk packaging equates to < 880 lbs (400 kgs) per package; Bulk packaging equates to > 880 lbs (400 kgs). For hazardous determination on Non-Bulk packaging, please refer to the material certification for the specific shipment. All Bulk packaging would meet or exceed the RQ value and is considered hazardous.

#### IATA

UN number UN3077

**UN proper shipping name** Environmentally hazardous substance, solid, n.o.s.

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards Yes
ERG Code 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Reportable Quantity (RQ) for Nickel must be 100 LBS contained per package. Certification can be reviewed to determine specific RQ value of Nickel. Non-Bulk packaging equates to < 880 lbs (400 kgs) per package; Bulk packaging equates to > 880 lbs (400 kgs). For hazardous determination on Non-Bulk packaging, please refer to the material certification for the specific shipment. All Bulk packaging would meet or exceed the RQ value and is considered hazardous.

#### **IMDG**

UN number UN3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant No F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Reportable Quantity (RQ) for Nickel must be 100 LBS contained per package. Certification can be reviewed to determine specific RQ value of Nickel. Non-Bulk packaging equates to < 880 lbs (400 kgs) per package; Bulk packaging equates to > 880 lbs (400 kgs). For hazardous determination on Non-Bulk packaging, please refer to the material certification for the specific shipment. All Bulk packaging would meet or exceed the RQ value and is considered hazardous.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and the IBC Code

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

 Chromium (CAS 7440-47-3)
 LISTED

 Copper (CAS 7440-50-8)
 LISTED

 Manganese (CAS 7439-96-5)
 LISTED

 Nickel (CAS 7440-02-0)
 LISTED

 Phosphorus (CAS 7723-14-0)
 LISTED

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Nickel Hard Facing SDS US

### SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Phosphorus	7723-14-0	1	100		

Phosphorus 7723-14-0 1

SARA 311/312 Hazardous chemical

Yes

# SARA 313 (TRI reporting)

 Chemical name	CAS number	% by wt.
Nickel	7440-02-0	65 - 97
Chromium	7440-47-3	0 - 18

## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Chromium (CAS 7440-47-3)

Manganese (CAS 7439-96-5)

Nickel (CAS 7440-02-0)

Phosphorus (CAS 7723-14-0)

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US** state regulations

### **US. Massachusetts RTK - Substance List**

Carbon (CAS 7440-44-0)

Chromium (CAS 7440-47-3)

Copper (CAS 7440-50-8)

Manganese (CAS 7439-96-5)

Molybdenum (CAS 7439-98-7)

Nickel (CAS 7440-02-0)

Phosphorus (CAS 7723-14-0)

Silicon (CAS 7440-21-3)

Sulfur (CAS 7704-34-9)

Tungsten (CAS 7440-33-7)

## **US. New Jersey Worker and Community Right-to-Know Act**

Boron (CAS 7440-42-8)

Carbon (CAS 7440-44-0)

Chromium (CAS 7440-47-3)

Copper (CAS 7440-50-8)

Manganese (CAS 7439-96-5)

Molybdenum (CAS 7439-98-7)

Nickel (CAS 7440-02-0)

Phosphorus (CAS 7723-14-0)

Silicon (CAS 7440-21-3)

Sulfur (CAS 7704-34-9)

Tungsten (CAS 7440-33-7)

## US. Pennsylvania Worker and Community Right-to-Know Law

Carbon (CAS 7440-44-0)

Chromium (CAS 7440-47-3)

Copper (CAS 7440-50-8)

Manganese (CAS 7439-96-5)

Molybdenum (CAS 7439-98-7)

Nickel (CAS 7440-02-0)

Phosphorus (CAS 7723-14-0)

Silicon (CAS 7440-21-3)

Sulfur (CAS 7704-34-9)

Tungsten (CAS 7440-33-7)

### US. Rhode Island RTK

Chromium (CAS 7440-47-3)

Copper (CAS 7440-50-8)

Manganese (CAS 7439-96-5)

Nickel Hard Facing

Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0)

## **US.** California Proposition 65

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

## US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Nickel (CAS 7440-02-0)

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 02-September-2015

Revision date 23-May-2016

Version # 03

Further information Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

HMIS® ratings Health: 3\* Flammability: 1

Physical hazard: 0

**Disclaimer** The above information is believed to be accurate based on the most current data available.

Ametek makes no warranty, either expressed or implied, with respect to such information, and

assumes no liability resulting from its use. Users are advised to conduct their own test to determine the safety and suitability of each product or product combination for their own purposes.

Ametek shall not be liable for claims, losses or damages of any third party or for lost profits or

incidental or consequential damages.

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).