# SAFETY DATA SHEET

1. Identification

Product identifier Pickled and Oiled Steel Coils, Sheet, and Plate

Other means of identification

Not available.

Synonyms

Carbon Steel Sheet/Strip and Skelp \* Carbon Steel \* HSLA Steel \* Alloy Steel

Recommended use

As supplied, the product is expected to pose no immediate health or fire hazard. Dusts or fumes generated during subsequent remanufacturing may pose the hazards described in this Material

Safety Data Sheet.

Recommended restrictions

None known.

Manufacturer / Importer / Supplier / Distributor information

Company name Address

21 Waterway Ave.

Cargill Ferrous International

Ste. 525

Woodlands, Tx. 77388

US

Telephone

General Information:

1-800-992-1083

E-mail

Not available.

Emergency phone number

24-Hour Emergency:

1-800-262-8200

## 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2B

Sensitization, skin

Category 1

Carcinogenicity

Category 2

Reproductive toxicity

Category 1B

Specific target organ toxicity, single exposure

Category 3 narcotic effects

Specific target organ toxicity, repeated

Category 1 (Blood, kidney)

exposure

Category 1

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

Category 1

long-term hazard

OSHA defined hazards

Combustible dust

Label elements



Signal word

Danger

Hazard statement

Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. May form combustible dust concentrations in air.

Precautionary statement Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Ground/bond container and receiving equipment. Do not breathe dust. Avoid breathing dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. 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. In case of inadequate ventilation wear respiratory protection. Prevent dust accumulation to minimize explosion hazard.

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Response

If exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Take off contaminated clothing and wash before reuse. Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

None known.

### Supplemental information

As supplied, the product is expected to pose no immediate health or fire hazard. Dusts or fumes generated during subsequent remanufacturing may pose the hazards described in this Material Safety Data Sheet.

## 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	%
Iron		7439-89-6	>86
Chromium		7440-47-3	0 - 5
Nickel	.11	7440-02-0	0 - 5
Manganese		7439-96-5	0 - 3
Copper		7440-50-8	0 - 2.5
Molybdenum		7439-98-7	0 - 2,5
Aluminum		7429-90-5	0 - 2
Silicon		7440-21-3	0 - 2

Composition comments

This product is coated in a thin layer of oils to prevent oxidation. The oils are not expected to pose any health hazards.

#### 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately. Move person to fresh air.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. If skin irritation or rash occurs: Get medical advice/attention. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Get medical attention if irritation develops and persists. Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

Ingestion

Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Not relevant, due to the form of the product.

Most important symptoms/effects, acute and delayed Irritation of eyes and mucous membranes. May cause allergic skin reaction. May cause allergic respiratory reaction. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse. First aid is not normally required due to the form of the product. Advice is supplied for dust or fumes that may be generated in remanufacturing.

### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Apply extinguishing media carefully to avoid creating airborne dust.

Carbon dioxide (CO2). Do not use water on molten metal: Explosion hazard could result.

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Specific hazards arising from the chemical

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. Dust may form explosive mixture with air.

Special protective equipment and precautions for firefighters

Not available.

Fire-fighting equipment/instructions General fire hazards

Water runoff can cause environmental damage. Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

No unusual fire or explosion hazards noted. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Use only non-sparking tools. Keep people away from and upwind of spill/leak. Keep out of low areas. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust. Ensure adequate ventilation, Local authorities should be advised if significant spillages cannot be contained. Wear appropriate personal protective equipment (See Section 8).

Methods and materials for containment and cleaning up

Minimize dust generation and accumulation. Collect spillage. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Prevent entry into waterways, sewer, basements or confined areas. Sweep or scoop up and remove. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Nonsparking tools should be used.

**Environmental precautions** 

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. 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. Eliminate all sources of ignition. Minimize dust generation and accumulation. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g., NFPA-654). Do not breathe dust. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Do not breathe fumes and dusts.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. 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 container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. 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. 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.

## 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
Aluminum (CAS 7429-90-5)	PEL	5 mg/m3	Respirable dust
,		15 mg/m3	Total dust.
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	
Silicon (CAS 7440-21-3)	PEL	5 mg/m3	Respirable fraction,

US OSHA Table 7-1 Limits for Air Contaminants (29 CFR 1910 1000)

Components	Туре	Value	Form
		15 mg/m3	Total dust
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Manganese (CAS 7439-96-5)	TWA	0.1 mg/m3	Inhalable fraction,
		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.
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3	Welding fume or pyrophoric powder.
		5 mg/m3	Respirable.
		10 mg/m3	Total
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	
Silicon (CAS 7440-21-3)	TWA	5 mg/m3	Respirable.
,		10 mg/m3	Total
logical limit values	No biological exposure limits noted f	for the ingredient(s).	
osure guidelines	No exposure standards allocated.		
propriate engineering trols	If engineering measures are not suff Occupational Exposure Limit (OEL), adequate ventilation, especially in or equipment such as local exhaust ver this product contain explosion relief oxygen-deficient environment. Ensu collectors, vessels, and processing of	suitable respiratory protection nonfined areas. It is recommendentilation and material transport syents or an explosion suppressive that dust-handling systems (s	nust be worn. Ensure d that all dust control ystems involved in handlin on system or an uch as exhaust ducts, dust

oxygen deficient environment. Provide eyewash station. Individual protection measures, such as personal protective equipment

Skin protection

Wear a full-face respirator, if needed.

Eye/face protection

Hand protection

Wear protective gloves.

Other

Wear appropriate chemical resistant clothing. It is good industrial hygiene practice to minimize skin

dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: High-efficiency particulate respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

Appearance

Physical state

Form

Powder. Sheet or strip.

Color

Metallic gray.

Odor

Odorless.

Odor threshold

Not available.

pН

Not applicable.

Melting point/freezing point

2750 °F (1510 °C)

Initial boiling point and boiling

Not available.

range

Flash point

Not applicable.

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

(%)

Flammability limit - upper

Not applicable.

(%)Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not applicable.

Vapor density

Not applicable.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Insoluble.

Partition coefficient

No data available.

(n-octanol/water)

Auto-ignition temperature

Not available. Not available. Decomposition temperature

Viscosity

Not applicable.

Other information

Density

7.85 g/cm3

## 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

Aluminum dust is spontaneously flammable in air. Contact with strong acids will release highly flammable hydrogen gas. Iron oxide dusts in contact with calcium hypochlorite evolve oxygen and may cause an explosion. Molten aluminum may explode on contact with water, concrete, oxides of

other materials or other oxidizing agents.

Conditions to avoid

Keep away from heat, sparks and open flame. Minimize dust generation and accumulation, Ignition

Incompatible materials

Strong oxidizing agents. Strong acids. Calcium hypochlorite. Metal salts.

Hazardous decomposition

Metal oxides.

sources.

products

## 11. Toxicological information

Information on likely routes of exposure

Ingestion

Based on available data, the classification criteria are not met.

Inhalation

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

Skin contact

Causes skin irritation. May cause an allergic skin reaction.

Eye contact

Causes eye irritation.

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Symptoms related to the physical, chemical and toxicological characteristics Suspected of causing cancer. Irritant effects. Symptoms of overexposure may be headache,

dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity

Components

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin

reaction. Causes skin, eye and respiratory tract irritation.

Manganese (CAS 7439-96-5)

Acute

Oral

LD50

Rat

Species

**Test Results** 

Silicon (CAS 7440-21-3)

Acute

Oral

LD50

Rat

9000 mg/kg

3160 mg/kg

Causes skin irritation.

Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization

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

asthma symptoms or breathing difficulties if inhaled.

Skin sensitization

Germ cell mutagenicity

May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Chromium (CAS 7440-47-3)

Nickel (CAS 7440-02-0)

3 Not classifiable as to carcinogenicity to humans.

2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Nickel (CAS 7440-02-0)

Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity

May damage fertility or the unborn child. May damage fertility or the unborn child. May cause adverse reproductive effects - such as birth defects, miscarriages, or infertility.

In a toxicity study of copper oxide by inhalation exposure to rats (Dose level: 0.01 to 1 mg/ m3, period: 90 to 100 days), inhibition of spermatogenesis, change in sperm function and testicular

atrophy were observed.

High-dose exposure of experimental animals during pregnancy to chromium can produce embryo death and some malformations. Human reports have not identified a syndrome of abnormalities

associated with chromium exposure during pregnancy.

Specific target organ toxicity single exposure

Narcotic effects.

Specific target organ toxicity repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available.

Chronic effects

Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated

exposure. Cancer hazard - can cause cancer. Overexposure can cause lung damage.

Excessive inhalation of fumes of freshly formed metal oxide particles sized below 1.5 microns and usually between 0.02-0.05 microns from many metals can produce an acute reaction known as metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms), metallic taste in the mouth, dryness and irritation of the throat followed by weakness and muscle pain. The symptoms come on in 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. Freshly formed oxide fumes of manganese and copper have been associated with causing

metal fume fever-

# 12. Ecological information

**Ecotoxicity** 

Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

**Test Results** Components Species Copper (CAS 7440-50-8) Aquatic 0.024 mg/l, 96 hours LC50 Fish Striped bass (Morone saxatilis)

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Components Species Test Results

Molybdenum (CAS 7439-98-7)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 800 mg/l, 96 hours

(Oncorhynchus mykiss)

Nickel (CAS 7440-02-0)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 2.916 mg/l, 96 hours

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions

This material and its container must be disposed of as hazardous waste. 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. When this product as supplied is to be discarded

as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Hazardous waste code Not regulated

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

emptied.

### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not available.

## 15. Regulatory information

Communication)

Dusts or fumes are considered hazardous under 29 CFR 1910.1200 (Hazard Communication). 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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

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

SARA 302 Extremely hazardous substance

Not listed.

## SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Chromium	7440-47-3	0 - 5
Nickel	7440-02-0	0 - 5
Manganese	7439-96-5	0 - 3
Copper	7440-50-8	0 - 2.5
Aluminum	7429-90-5	0 - 2

#### Other federal regulations

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

Yes

Chromium (CAS 7440-47-3) Manganese (CAS 7439-96-5) Nickel (CAS 7440-02-0)

# 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

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

#### US. Massachusetts RTK - Substance List

Aluminum (CAS 7429-90-5) 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) Silicon (CAS 7440-21-3)

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

Aluminum (CAS 7429-90-5) 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) Silicon (CAS 7440-21-3)

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

Aluminum (CAS 7429-90-5) 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) Silicon (CAS 7440-21-3)

## US. Rhode Island RTK

Aluminum (CAS 7429-90-5) Chromium (CAS 7440-47-3) Copper (CAS 7440-50-8) Manganese (CAS 7439-96-5) Nickel (CAS 7440-02-0)

## 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

On inventory (yes/no)\* Country(s) or region Inventory name

Inventory of Existing and New Chemical Substances (ENCS) Japan

Existing Chemicals List (ECL) Yes Korea

New Zealand Inventory New Zealand Yes

Philippine Inventory of Chemicals and Chemical Substances **Philippines** 

(PICCS)

Toxic Substances Control Act (TSCA) Inventory Yes United States & Puerto Rico

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

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).

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

17-January-2014 Issue date

Revision date

Version#

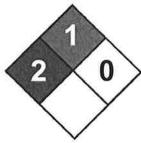
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Further information

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.

Yes

**NFPA Ratings** 



References

**ACGIH** 

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs, Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

To the best of our knowledge, the information contained herein is accurate. However, neither the Disclaimer

above named supplier nor any of its subsidiaries assumes any liability whatsoever for

completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these

are the only hazards that exist.

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SDS US 9/9 903794 Version #: 01 Revision date: - Issue date: 17-January-2014