



# SAFETY DATA SHEET

## 1. Identification

**GHS product identifier** STEEL-IT 2203 Sinco Alkyd Primer  
**Product code** 2203  
**Version #** 01  
**Issue date** 11-01-2012  
**Revision date** -  
**Supersedes date** 11-01-2012  
**CAS #** Mixture  
**Recommended use** Paint / Industrial coating.  
**Recommended Restrictions** Not available.  
**Manufacturer information** Stainless Steel Coatings, Inc  
835 Sterling Road  
South Lancaster, MA, 01561  
Contact person: CHEMTREC  
sds@steel-it.com  
(978) 365-9828

## 2. Hazards identification

### GHS classification

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 1B
	Carcinogenicity	Category 1B
	Reproductive toxicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2 (Lung)
<b>Environmental hazards</b>	Hazardous to the aquatic environment, long-term hazard	Category 2

### GHS label elements

**Signal word** Danger



**Hazard statement** Highly flammable liquid and vapor. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction. May cause damage to organs (Lung) through prolonged or repeated exposure. May cause genetic defects. May cause cancer.

### Precautionary statement

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing mist/vapors/spray. Avoid release to the environment.

**Response** In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Collect spillage.

<b>Storage</b>	Store locked up. Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Specific hazards</b>	Overexposure to mists/vapors of this product may cause headache, dizziness, nausea, and respiratory tract irritation.

### 3. Composition/information on ingredients

Components	CAS #	Percent
Iron oxide	1309-37-1	10-20
Ligroine	8032-32-4	10-20
Talc	14807-96-6	10-20
Toluene	108-88-3	5-10
Zinc oxide	1314-13-2	5-10
Ethylbenzene	100-41-4	2-5
P-xylene	106-42-3	2-5
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene	98-56-6	1-2
Distillates (petroleum), hydrotreated light	64742-47-8	1-2
Nickel	7440-02-0	1-2
O-xylene	95-47-6	1-2
Xylene	1330-20-7	1-2
2-Butanone oxime	96-29-7	<1
Octanoic acid, cobalt salt	6700-85-2	<1

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First aid measures

#### First aid procedures

<b>Inhalation</b>	If symptomatic, move to fresh air. Get medical attention if symptoms persist.
<b>Skin</b>	Wash area with soap and water. Get medical attention if irritation develops or persists.
<b>Eye</b>	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention immediately.
<b>Ingestion</b>	Get medical attention if any discomfort occurs.

**Most important symptoms and effects, both acute and delayed** Sensitization. Skin irritation. Headaches, dizziness and nausea.

**Notes to physician** Treat symptomatically.

**General advice** No specific first aid measures noted.

### 5. Fire-fighting measures

**Suitable extinguishing media** Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. Water fog.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed. Vapors may form explosive mixtures with air.

**Protective equipment and precautions for firefighters** Self-contained breathing apparatus.

**Protection of fire-fighters** Cool containers exposed to heat with water spray and remove container, if no risk is involved.

### 6. Accidental release measures

**Personal precautions** Eliminate all sources of ignition. Ensure adequate ventilation. Wear suitable protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

**Environmental precautions** Prevent entry into waterways, sewer, basements or confined areas.

**Methods for containment** Eliminate all ignition sources. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

## Methods for cleaning up

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Liquid Spills: Absorb up with sand or other non-combustible absorbent material.

Never return spills in original containers for re-use. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

## 7. Handling and storage

### Handling

Wear personal protective equipment. The product is highly flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. Use only non-sparking tools. Use only with adequate ventilation. Vapors are heavier than air and may spread along floors. Pregnant women should not work with the product, if there is the least risk of exposure. Wash thoroughly after handling. Observe good industrial hygiene practices. Avoid inhalation of vapors and contact with skin and eyes.

### Storage

Store locked up. Keep container tightly closed and in a well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Store in closed original container at room temperature. Store away from incompatible materials.

## 8. Exposure controls / personal protection

### Control parameters

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m <sup>3</sup>	Inhalable fraction.
Octanoic acid, cobalt salt (CAS 6700-85-2)	TWA	0.02 mg/m <sup>3</sup>	
O-xylene (CAS 95-47-6)	STEL	150 ppm	
	TWA	100 ppm	
P-xylene (CAS 106-42-3)	STEL	150 ppm	
	TWA	100 ppm	
Talc (CAS 14807-96-6)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.
Toluene (CAS 108-88-3)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m <sup>3</sup>	Respirable fraction.
	TWA	2 mg/m <sup>3</sup>	Respirable fraction.

### Recommended monitoring procedures

Follow standard monitoring procedures.

### Engineering controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

### Personal protective equipment

#### Eye/face protection

Use approved safety goggles or face shield.

#### Skin protection

Wear appropriate chemical resistant clothing to prevent any possibility of skin contact. Nitrile chemical resistant gloves are recommended.

#### Respiratory protection

Use respiratory equipment with combination filter, type A2/P2.

#### Hand protection

Wear appropriate chemical resistant gloves. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.

## 9. Physical and chemical properties

### Appearance

#### Physical state

Liquid.

#### Color

Red.

#### Form

Liquid.

### Odor

Characteristic of solvents.

### Odor threshold

Not available.

### pH

Not available.

### Melting point/Freezing point

Not available.

### Boiling point

275 - 412 °F (135 - 211.1 °C)

### Flash point

40 °F (4.4 °C) Closed Cup

<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	0.9 %
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	> 1
<b>Relative density</b>	1.426 (77°F)
<b>Solubility (H2O)</b>	Moderate soluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>VOC (Weight %)</b>	473 g/l Test method: Product Formulation Data

## 10. Stability and reactivity

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Will not occur.
<b>Conditions to avoid</b>	Heat, sparks, flames. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon dioxide. Carbon oxides.

## 11. Toxicological information

### Toxicological data

Components	Species	Test Results
2-Butanone oxime (CAS 96-29-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	184 mg/kg
<i>Oral</i>		
LD50	Rat	930 mg/kg
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 5.28 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Ethylbenzene (CAS 100-41-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	18156 mg/kg
<i>Inhalation</i>		
LC50	Rat	55000 mg/m <sup>3</sup>
<i>Oral</i>		
LD50	Rat	3500 mg/kg
Ligroine (CAS 8032-32-4)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	3400 mg/l, 4 Hours

Components	Species	Test Results
<i>Other</i> LD50	Mouse	40 mg/kg
O-xylene (CAS 95-47-6)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rabbit	> 43 g/kg
<i>Inhalation</i> LC50	Rat	6350 mg/l, 4 Hours
<i>Oral</i> LD50	Rat	4300 mg/kg
P-xylene (CAS 106-42-3)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rabbit	> 43 g/kg
<i>Oral</i> LD50	Rat	3523 - 8600 mg/kg
Toluene (CAS 108-88-3)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rabbit	14.1 ml/kg
<i>Inhalation</i> LC50	Rat	49000 mg/m <sup>3</sup> , 4 Hours
<i>Oral</i> LD50	Rat	636 mg/kg
Xylene (CAS 1330-20-7)		
<b>Acute</b>		
<i>Oral</i> LD50	Rat	4300 mg/kg
Zinc oxide (CAS 1314-13-2)		
<b>Acute</b>		
<i>Oral</i> LD50	Rat	> 5 g/kg
<b>Routes of exposure</b>	Inhalation. Ingestion. Eye contact. Skin contact.	
<b>Toxicological information</b>	Occupational exposure to the substance or mixture may cause adverse effects.	
<b>Acute toxicity</b>	Overexposure to mists/vapors of this product may cause headache, dizziness, nausea, and respiratory tract irritation.	
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/irritation</b>	May cause eye irritation on direct contact.	
<b>Respiratory sensitizer</b>	None known.	
<b>Skin sensitization</b>	May cause an allergic skin reaction.	
<b>Mutagenicity</b>	May cause genetic defects.	
<b>Carcinogenicity</b>	May cause cancer.	
<b>ACGIH Carcinogens</b>		
Ethylbenzene (CAS 100-41-4)		A3 Confirmed animal carcinogen with unknown relevance to humans.
Iron oxide (CAS 1309-37-1)		A4 Not classifiable as a human carcinogen.
Nickel (CAS 7440-02-0)		A5 Not suspected as a human carcinogen.
Octanoic acid, cobalt salt (CAS 6700-85-2)		A3 Confirmed animal carcinogen with unknown relevance to humans.
O-xylene (CAS 95-47-6)		A4 Not classifiable as a human carcinogen.
P-xylene (CAS 106-42-3)		A4 Not classifiable as a human carcinogen.
Talc (CAS 14807-96-6)		A4 Not classifiable as a human carcinogen.
Toluene (CAS 108-88-3)		A4 Not classifiable as a human carcinogen.
Xylene (CAS 1330-20-7)		A4 Not classifiable as a human carcinogen.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
Iron oxide (CAS 1309-37-1)	3 Not classifiable as to carcinogenicity to humans.
Nickel (CAS 7440-02-0)	2B Possibly carcinogenic to humans.
O-xylene (CAS 95-47-6)	3 Not classifiable as to carcinogenicity to humans.
P-xylene (CAS 106-42-3)	3 Not classifiable as to carcinogenicity to humans.
Talc (CAS 14807-96-6)	2B Possibly carcinogenic to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

<b>Reproductive toxicity</b>	Suspected of damaging the unborn child.
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness or dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to the following organs through prolonged or repeated exposure: Lungs.
<b>Symptoms</b>	Sensitization. Skin irritation. Headaches, dizziness and nausea.

## 12. Ecological information

### Ecotoxicological data

Components		Species	Test Results
2-Butanone oxime (CAS 96-29-7)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	777 - 914 mg/l, 96 hours
Ethylbenzene (CAS 100-41-4)			
<b>Aquatic</b>			
Crustacea	EC50	Daphnia	2.1 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	32 - 88 mg/l, 96 hours
		Fathead minnow ( <i>Pimephales promelas</i> )	12.1 mg/l, 96 hours
O-xylene (CAS 95-47-6)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	0.78 - 2.51 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	5.59 - 11.6 mg/l, 96 hours
P-xylene (CAS 106-42-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	3.55 - 6.31 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	2.6 mg/l, 96 hours
Toluene (CAS 108-88-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon ( <i>Oncorhynchus kisutch</i> )	5.5 mg/l, 96 hours
Xylene (CAS 1330-20-7)			
<b>Aquatic</b>			
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	8 mg/l, 96 Hours
Zinc oxide (CAS 1314-13-2)			
<b>Aquatic</b>			
Crustacea	LC50	Water flea ( <i>Daphnia magna</i> )	0.098 mg/l, 48 Hours
<b>Ecotoxicity</b>	Toxic to aquatic life with long lasting effects.		
<b>Persistence / degradability</b>	No data available.		
<b>Bioaccumulation</b>	No data available.		
<b>Bioaccumulative potential</b>			
<b>Octanol/water partition coefficient log Kow</b>			
Toluene			2.73
O-xylene			3.12
Ethylbenzene			3.15

**Bioaccumulative potential****Octanol/water partition coefficient log Kow**

P-xylene	3.15
Xylene	3.2

**Mobility** No data available.

**13. Disposal considerations**

**Disposal methods** Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

**Waste from residues / unused products** Dispose of waste and residues in accordance with local authority requirements.

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

**14. Transport information****ADR**

<b>UN number</b>	UN1263
<b>Proper shipping name</b>	PAINT
<b>Hazard class</b>	3
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Tunnel restriction code</b>	D/E
<b>Labels required</b>	3
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.

**IATA**

<b>UN number</b>	UN1263
<b>Proper shipping name</b>	Paint
<b>Hazard class</b>	3
<b>Packing group</b>	III
<b>Special precautions</b>	Read safety instructions, MSDS and emergency procedures before handling.

**IMDG**

<b>UN number</b>	UN1263
<b>Proper shipping name</b>	PAINT, MARINE POLLUTANT
<b>Hazard class</b>	3
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-E, S-E
<b>Special precautions</b>	Read safety instructions, MSDS and emergency procedures before handling.

**RID**

<b>UN number</b>	UN1263
<b>Proper shipping name</b>	PAINT
<b>Hazard class</b>	3
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Labels required</b>	3
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

**15. Regulatory information****Inventory status**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
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

Country(s) or region	Inventory name	On inventory (yes/no)*
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)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

## 16. Other information

### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

### List of abbreviations

Not available.