



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

| | | |
|------------------------------|--|-----------------------------|
| Physical hazards | Flammable liquids | Category 2 |
| Health hazards | 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) |
| Environmental hazards | 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.

| | |
|-------------------------|---|
| Storage | Store locked up. Store in a well-ventilated place. Keep cool. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Specific hazards | 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

| | |
|-------------------|--|
| Inhalation | If symptomatic, move to fresh air. Get medical attention if symptoms persist. |
| Skin | Wash area with soap and water. Get medical attention if irritation develops or persists. |
| Eye | Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention immediately. |
| Ingestion | 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 (CO₂). 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 ³ | Respirable fraction. |
| Nickel (CAS 7440-02-0) | TWA | 1.5 mg/m ³ | Inhalable fraction. |
| Octanoic acid, cobalt salt (CAS 6700-85-2) | TWA | 0.02 mg/m ³ | |
| 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 ³ | 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 ³ | Respirable fraction. |
| | TWA | 2 mg/m ³ | 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

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

10. Stability and reactivity

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

11. Toxicological information

Toxicological data

| Components | Species | Test Results |
|--|---------|-------------------------|
| 2-Butanone oxime (CAS 96-29-7) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 184 mg/kg |
| <i>Oral</i> | | |
| LD50 | Rat | 930 mg/kg |
| Distillates (petroleum), hydrotreated light (CAS 64742-47-8) | | |
| Acute | | |
| <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) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 18156 mg/kg |
| <i>Inhalation</i> | | |
| LC50 | Rat | 55000 mg/m ³ |
| <i>Oral</i> | | |
| LD50 | Rat | 3500 mg/kg |
| Ligroine (CAS 8032-32-4) | | |
| Acute | | |
| <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) | | |
| Acute | | |
| <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) | | |
| Acute | | |
| <i>Dermal</i> LD50 | Rabbit | > 43 g/kg |
| <i>Oral</i> LD50 | Rat | 3523 - 8600 mg/kg |
| Toluene (CAS 108-88-3) | | |
| Acute | | |
| <i>Dermal</i> LD50 | Rabbit | 14.1 ml/kg |
| <i>Inhalation</i> LC50 | Rat | 49000 mg/m ³ , 4 Hours |
| <i>Oral</i> LD50 | Rat | 636 mg/kg |
| Xylene (CAS 1330-20-7) | | |
| Acute | | |
| <i>Oral</i> LD50 | Rat | 4300 mg/kg |
| Zinc oxide (CAS 1314-13-2) | | |
| Acute | | |
| <i>Oral</i> LD50 | Rat | > 5 g/kg |
| Routes of exposure | Inhalation. Ingestion. Eye contact. Skin contact. | |
| Toxicological information | Occupational exposure to the substance or mixture may cause adverse effects. | |
| Acute toxicity | Overexposure to mists/vapors of this product may cause headache, dizziness, nausea, and respiratory tract irritation. | |
| Skin corrosion/irritation | Causes skin irritation. | |
| Serious eye damage/irritation | May cause eye irritation on direct contact. | |
| Respiratory sensitizer | None known. | |
| Skin sensitization | May cause an allergic skin reaction. | |
| Mutagenicity | May cause genetic defects. | |
| Carcinogenicity | May cause cancer. | |
| ACGIH Carcinogens | | |
| 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. |

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

12. Ecological information

Ecotoxicological data

| Components | | Species | Test Results |
|--|--|--|----------------------------|
| 2-Butanone oxime (CAS 96-29-7) | | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) | 777 - 914 mg/l, 96 hours |
| Ethylbenzene (CAS 100-41-4) | | | |
| Aquatic | | | |
| 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) | | | |
| Aquatic | | | |
| 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) | | | |
| Aquatic | | | |
| 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) | | | |
| Aquatic | | | |
| 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) | | | |
| Aquatic | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) | 8 mg/l, 96 Hours |
| Zinc oxide (CAS 1314-13-2) | | | |
| Aquatic | | | |
| Crustacea | LC50 | Water flea (<i>Daphnia magna</i>) | 0.098 mg/l, 48 Hours |
| Ecotoxicity | Toxic to aquatic life with long lasting effects. | | |
| Persistence / degradability | No data available. | | |
| Bioaccumulation | No data available. | | |
| Bioaccumulative potential | | | |
| Octanol/water partition coefficient log Kow | | | |
| 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**

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

IATA

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

IMDG

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

RID

| | |
|------------------------------|---|
| UN number | UN1263 |
| Proper shipping name | PAINT |
| Hazard class | 3 |
| Packing group | III |
| Environmental hazards | |
| Marine pollutant | Yes |
| Labels required | 3 |
| Special precautions | 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**

| 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 |

| 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.