SAFETY DATA SHEET

1. Identification

GHS product identifier STEEL-IT 4210A Epoxy Primer, Part "A"

Product code 4210A Version # 01

Issue date 10-29-2012

Revision date - Supersedes date -

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 hazardsFlammable liquidsCategory 2Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2Sensitization, skinCategory 1CarcinogenicityCategory 2

Environmental hazards

.

GHS label elements

Signal word Danger



Not classified.





Hazard statement Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May

cause an allergic skin reaction. Suspected of causing cancer.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use

personal protective equipment as required. Do not breathe mist or vapor.

ResponseIn case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Wash contaminated clothing before reuse. If skin irritation or

rash occurs: Get medical advice/attention.

Storage Store in a well-ventilated place. Keep cool. Store locked up.

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

Specific hazards

Vapors irritate the respiratory system, and may cause coughing and difficulties in breathing. May cause lung damage. Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain. Contains ethylbenzene,

which is classified as an IARC 2B chemical (Possibly Carcinogenic to Humans).

910978 Version #: 01 Revision date: - Issue date: 10-29-2012

3. Composition/information on ingredients

Components	CAS#	Percent
Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]	67924-34-9	40 - 60
Xylene	1330-20-7	15 - 20
Titanium dioxide	13463-67-7	10 - 15
1-Methoxy-2-propanol	107-98-2	1 - 5
Barium Phosphate	10048-98-3	1 - 5
Ethylbenzene	100-41-4	1 - 5
Chromium	7440-47-3	1 - 3
Dipropylene glycol monomethyl ether	34590-94-8	1 - 3
m-Xylene	108-38-3	1 - 3
Silicon dioxide	7631-86-9	1 - 2
Nickel	7440-02-0	<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 Move injured person into fresh air and keep person calm under observation. Get medical attention

if any discomfort occurs.

Skin Remove contaminated clothing immediately and wash skin with soap and water. If skin rash or an

allergic skin reaction develops, get medical attention.

Eve Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and

open eyelids wide apart. Get medical attention.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If

vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get

Vapors may cause drowsiness and dizziness. Irritation of eyes. Skin irritation. Sensitization.

medical attention if any discomfort occurs.

Most important symptoms and effects, both acute and delayed

Notes to physician Treat symptomatically.

General advice Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere

to affected area. Call an ambulance. Continue flushing during transport to hospital.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Extinguish with foam, carbon dioxide or dry powder.

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. Solvent vapors may form explosive mixtures with air.

Protective equipment and precautions for firefighters

Protection of fire-fighters

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

Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

6. Accidental release measures

Personal precautions Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid

inhalation of vapors and spray mist and contact with skin and eyes.

Environmental precautions

Do not allow to enter drains, sewers or watercourses.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the

flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up

Remove sources of ignition. Absorb or cover with dry earth, sand or other non-combustible

material and transfer to containers.

SDS GHS UN

7. Handling and storage

Handling Local exhaust is recommended. Avoid inhalation of vapors and spray mist and contact with skin

and eyes. The product is highly flammable, and explosive vapor/air mixtures may be formed. Do not smoke, use open fire or other sources of ignition. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Use non-sparking hand tools and explosion-proof electrical equipment. Observe good

industrial hygiene practices.

Store in closed original container in a dry place. Keep away from heat, sparks and open flame. Storage

Protect against direct sunlight. Store away from incompatible materials.

8. Exposure controls / personal protection

Control parameters

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	150 ppm	
ŕ	TWA	100 ppm	
Barium Phosphate (CAS 10048-98-3)	TWA	0.5 mg/m3	
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	150 ppm	
,	TWA	100 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
m-Xylene (CAS 108-38-3)	STEL	150 ppm	
	TWA	100 ppm	
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

Recommended monitoring procedures

Follow standard monitoring procedures.

Engineering controls

Use explosion-proof equipment. Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Explosion-proof general and local exhaust ventilation. Provide easy access

to water supply or an emergency shower.

Issue date: 10-29-2012

Personal protective equipment

Eye/face protection Chemical goggles are recommended.

Skin protection Wear suitable protective clothing. Chemical/oil resistant clothing is recommended.

Respiratory protection In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory

equipment.

Hand protection Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is

advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who

can inform about the breakthrough time of the glove material.

9. Physical and chemical properties

Appearance

Physical state Liquid. Color Gray. **Form** Liquid.

Odor Characteristic of solvents.

Odor threshold Not available. Not available. Melting point/Freezing point Not available.

Boiling point 241 - 407 °F (116.1 - 208.3 °C)

Flash point 72 °F (22.2 °C) **Evaporation rate** Slower then ether. Flammability (solid, gas) Not applicable.

STEEL-IT 4210A Epoxy Primer, Part "A"

910978 Version #: 01 Revision date: -

Flammability limits in air,

lower, % by volume

0.9 % Not available.

Flammability limits in air,

upper, % by volume

Not available.

Vapor pressure Vapor density > 1 (air=1) 1.3 (77°F) Relative density < 2 g/100 g Solubility (H2O)

Not available. **Auto-ignition temperature Decomposition temperature** Not available.

456 g/l VOC (Weight %)

Molecular weight Not available.

Other data

Not available. **Explosive limit Explosive properties** Not available. **Oxidizing properties** Not available.

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.

Incompatible materials Strong oxidizing agents. Strong reducing agents. Strong acids.

Hazardous decomposition

products

Carbon oxides. Aldehydes. Nitrogen compounds.

11. Toxicological information

Toxicological data

Components	Species	Test Results
1-Methoxy-2-propanol (CAS	S 107-98-2)	
Acute		
Inhalation		
LC50	Rat	15000 ppm, 4 Hours
Oral		
LD50	Rat	6600 mg/kg
Dipropylene glycol monome	ethyl ether (CAS 34590-94-8)	
Acute		
Dermal		
LD50	Rabbit	9.5 g/kg
Oral		
LD50	Rat	5.35 g/kg
Ethylbenzene (CAS 100-41-	-4)	
Acute		
Dermal	-	
LD50	Rabbit	18156 mg/kg
Inhalation	5 /	
LC50	Rat	55000 mg/m³
Oral		
LD50	Rat	3500 mg/kg
m-Xylene (CAS 108-38-3)		
Acute		
Dermal	5 11"	40400 #
LD50	Rabbit	12100 mg/kg
Oral	5 /	4000 #
LD50	Rat	4300 mg/kg

STEEL-IT 4210A Epoxy Primer, Part "A"

910978 Version #: 01 Revision date: -Issue date: 10-29-2012

SDS GHS UN

Species Test Results Components

Silicon dioxide (CAS 7631-86-9)

Acute Oral

LD50 Mouse > 15000 mg/kg Rat > 22500 mg/kg

Xylene (CAS 1330-20-7)

Acute Oral

LD50 Rat 4300 mg/kg

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Occupational exposure to the substance or mixture may cause adverse effects. **Toxicological information**

Acute toxicity May cause discomfort if swallowed.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eve irritation.

Respiratory sensitizer No data available.

Skin sensitization May cause an allergic skin reaction.

Mutagenicity No data available.

Suspected of causing cancer. Carcinogenicity

ACGIH Carcinogens

Barium Phosphate (CAS 10048-98-3) A4 Not classifiable as a human carcinogen. Chromium (CAS 7440-47-3) A4 Not classifiable as a human carcinogen.

A3 Confirmed animal carcinogen with unknown relevance to Ethylbenzene (CAS 100-41-4)

humans.

m-Xylene (CAS 108-38-3) A4 Not classifiable as a human carcinogen. Nickel (CAS 7440-02-0) A5 Not suspected as a human carcinogen. Titanium dioxide (CAS 13463-67-7) 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

Chromium (CAS 7440-47-3) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) Nickel (CAS 7440-02-0)

Silicon dioxide (CAS 7631-86-9) Titanium dioxide (CAS 13463-67-7)

Xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity No data available. Specific target organ toxicity -No data available.

single exposure

Specific target organ toxicity -

repeated exposure

No data available.

Aspiration hazard No data available.

Symptoms Vapors may cause drowsiness and dizziness. Skin and eye irritation. Sensitization.

Organic solvents may be absorbed into the body by inhalation and cause permanent damage to Other information

the nervous system, including the brain.

12. Ecological information

Ecotoxicological data

Components		Species	Test Results
Ethylbenzene (CAS 100-41-4)			
Aquatic			
Crustacea	EC50	Daphnia	2.1 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	32 - 88 mg/l, 96 hours
		Fathead minnow (Pimephales promelas)	12.1 mg/l, 96 hours

SDS GHS UN 5/7

Components Species Test Results

m-Xylene (CAS 108-38-3)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 2.81 - 5 mg/l, 48 hours
Fish LC50 Rainbow trout,donaldson trout 8.4 mg/l, 96 hours

(Oncorhynchus mykiss)

Xylene (CAS 1330-20-7)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 8 mg/l, 96 Hours

(Oncorhynchus mykiss)

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence / degradability No data available.

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Ethylbenzene 3.15 Xylene 3.2 m-Xylene 3.2

Mobility The product contains organic solvents which will evaporate easily from all surfaces.

Other adverse effects No data available.

13. Disposal considerations

Disposal methods Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof

bucket.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Disposal recommendations are based on material as supplied. Disposal must be in accordance

with current applicable laws and regulations, and material characteristics at time of disposal.

14. Transport information

ADR

UN number UN1263
Proper shipping name Paint
Hazard class 3
Packing group III

Environmental hazards

Marine pollutant No
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
Labels required 3

Special precautions Read safety instructions, MSDS and emergency procedures before handling.

IMDG

UN number UN1263
Proper shipping name Paint
Hazard class 3
Packing group III
Environmental hazards

Marine pollutant No Labels required 3

EmS F-E, S-E

Special precautions Read safety instructions, MSDS and emergency procedures before handling.

RID

UN number UN1263

Paint Proper shipping name **Hazard class** 3 Ш Packing group **Environmental hazards**

Marine pollutant No Labels required 3

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

Not applicable.

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

the IBC Code

15. Regulatory information

Regulatory information This material safety data sheet was prepared in accordance with "Globally Harmonized System of

Classification and Labelling of Chemicals (GHS)".

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	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)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates this product co	emplies 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.

STEEL-IT 4210A Epoxy Primer, Part "A"

910978 Version #: 01 Revision date: -Issue date: 10-29-2012 7/7