SAFETY DATA SHEET

1. Identification

GHS product identifier STEEL-IT 4907A Epoxy Finish, Part "A"

Product code 4907A Version # 02

 Issue date
 10-29-2012

 Revision date
 10-31-2012

 Supersedes date
 10-29-2012

 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 3 **Health hazards** Acute toxicity, oral Category 5 Acute toxicity, dermal Category 5 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1 Carcinogenicity Category 2

Specific target organ toxicity, repeated

exposure

Environmental hazards Hazardous to the aquatic environment,

long-term hazard

Category 2

Category 2 (Lung)

GHS label elements

Signal word Danger











Hazard statement

Flammable liquid and vapor. May be harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs (Lung) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

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. Avoid release to the

environment.

Response In 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. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

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.

STEEL-IT 4907A Epoxy Finish, Part "A"

SDS GHS UN

Vapors irritate the respiratory system, and may cause coughing and difficulties in breathing. May cause lung damage. Prolonged contact causes serious eye and tissue damage. Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain. Liquid irritates mucous membranes and may cause abdominal pain if swallowed. Contains ethylbenzene, which is classified as an IARC 2B chemical (Possibly Carcinogenic to Humans).

3. Composition/information on ingredients

Components	CAS#	Percent
Polyamide Resin	68410-23-1	40 - 50
2-Butoxyethanol	111-76-2	10 - 15
4-Chloroalpha.,.alpha.,trifluorotoluene	98-56-6	10 - 15
Xylene	1330-20-7	10 - 15
Chromium	7440-47-3	1 - 5
Ethylbenzene	100-41-4	1 - 5
Nickel	7440-02-0	1 - 5
1,2,4-Trimethylbenzene	95-63-6	1 - 3
Distillates (petroleum), hydrotreated light	64742-47-8	1-3
Solvent naphtha (petroleum), light aromatic	64742-95-6	1 - 3
Triethylenetetramine	112-24-3	< 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.

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

open eyelids wide apart. Get medical attention immediately. Continue to rinse.

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

medical attention if any discomfort occurs.

Most important symptoms and

effects, both acute and delayed

Notes to physician

General advice

Vapors may cause drowsiness and dizziness. Extreme irritation of eyes and mucous membranes, including burning and tearing. Skin irritation. Sensitization.

Treat symptomatically.

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

Protective equipment and

precautions for firefighters

mixtures with air. 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.

Protection of fire-fighters 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

Methods for containment

Do not allow to enter drains, sewers or watercourses.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry into

STEEL-IT 4907A Epoxy Finish, Part "A" 911038 Version #: 02 Revision date: 10-31-2012 Issue date: 10-29-2012

waterways, sewers, basements or confined areas.

Remove sources of ignition. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

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 flammable, and heating may generate vapors which may form explosive vapor/air mixtures. 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.

Storage

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

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
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

Recommended monitoring

procedures

Follow standard monitoring procedures.

Engineering controlsUse 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.

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 stateLiquid.ColorGray.FormLiquid.

Odor Characteristic of solvents.

Odor threshold Not available.

pH Not available.

Melting point/Freezing point Not available.

Boiling point 250 - 470 °F (121.1 - 243.3 °C)

Flash point 82 °F (27.8 °C)
Evaporation rate Slower then ether.
Flammability (solid, gas) Not applicable.

Flammability limits in air, lower, % by volume

0.6 %

Flammability limits in air,

upper, % by volume

Not available.

Vapor pressureNot available.Vapor density> 1 (air=1)Relative density1.11 (77°F)

STEEL-IT 4907A Epoxy Finish, Part "A"

911038 Version #: 02 Revision date: 10-31-2012 Issue date: 10-29-2012

Solubility (H2O) < 2 g/100 g **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. VOC (Weight %) 577.7 g/l Not available. Molecular weight

Other data

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

Carbon oxides. Aldehydes. Nitrogen compounds.

Hazardous decomposition

products

11. Toxicological information

Toxicological data

Components	Species	Test Results
1,2,4-Trimethylbenzene (CA	NS 95-63-6)	
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Inhalation		
LC50	Rat	18000 mg/m3, 4 hours
2-Butoxyethanol (CAS 111-	76-2)	
Acute		
Dermal		
LD50	Rabbit	400 mg/kg
Inhalation		
LC50	Rat	450 mg/l, 4 Hours
Oral		
LD50	Rat	560 mg/kg
**	otreated light (CAS 64742-47-8)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation	5 .	500 # 41
LC50	Rat	> 5.28 mg/l, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg
Ethylbenzene (CAS 100-41-	4)	
Acute		
<i>Dermal</i> LD50	Rabbit	18156 mg/kg
	Rabbit	16156 Hig/kg
<i>Inhalation</i> LC50	Rat	55000 mg/m³
	Nai	55000 Hig/III
<i>Oral</i> LD50	Rat	3500 mg/kg
	Nat	5500 Hig/kg
Xylene (CAS 1330-20-7)		
Acute Oral		
Ulai		

STEEL-IT 4907A Epoxy Finish, Part "A"

LD50

SDS GHS UN

4300 mg/kg

911038 Version #: 02 Revision date: 10-31-2012 Issue date: 10-29-2012

Rat

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 be harmful if absorbed through skin or swallowed.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitizer No data available.

Skin sensitization May cause an allergic skin reaction.

Mutagenicity No data available.

Suspected of causing cancer. Carcinogenicity

ACGIH Carcinogens

2-Butoxyethanol (CAS 111-76-2) A3 Confirmed animal carcinogen with unknown relevance to

humans.

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

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

Nickel (CAS 7440-02-0) A5 Not suspected as a human carcinogen. Xylene (CAS 1330-20-7) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) Chromium (CAS 7440-47-3) Ethylbenzene (CAS 100-41-4) Nickel (CAS 7440-02-0)

3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

Xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity No data available. Specific target organ toxicity -

single exposure

No data available.

Specific target organ toxicity -

repeated exposure

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

Aspiration hazard No data available.

Vapors may cause drowsiness and dizziness. Extreme irritation of eyes and mucous membranes, **Symptoms**

including burning and tearing. Skin irritation. Sensitization.

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

the nervous system, including the brain.

12. Ecological information

Ecotoxicological data

Components		Species	Test Results
1,2,4-Trimethylbenzene (CAS	95-63-6)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	7.19 - 8.28 mg/l, 96 hours
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
Xylene (CAS 1330-20-7)			

Aquatic

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

(Oncorhynchus mykiss)

Ecotoxicity Toxic to aquatic life with long lasting effects.

Persistence / degradability No data available.

Bioaccumulation

Bioaccumulative potential

STEEL-IT 4907A Epoxy Finish, Part "A"

Octanol/water partition coefficient log Kow

0.83 2-Butoxyethanol Ethylbenzene 3.15 **Xylene** 3.2

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

No data available. Other adverse effects

SDS GHS UN

13. Disposal considerations

Disposal methodsRags 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 packagingDisposal 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 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
Labels required 3

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
Labels required 3
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

Not applicable.

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)	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)	No

Europe European List of Notified Chemical Substances (ELINCS) No
Japan Inventory of Existing and New Chemical Substances (ENCS) No

Country(s) or regionInventory nameOn inventory (yes/no)*KoreaExisting Chemicals List (ECL)YesNew ZealandNew Zealand InventoryYes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

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

Philippines

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

available.

List of abbreviations Not available.

SDS GHS UN

Yes

911038 Version #: 02 Revision date: 10-31-2012 Issue date: 10-29-2012 7 / 7