



# SAFETY DATA SHEET

## 1. Identification

GHS product identifier	STEEL-IT 4907B Epoxy Finish, Part "B"	
Product code	4907B	
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 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 2
	Sensitization, skin	Category 1
	Carcinogenicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2 (Lung)
Environmental hazards	Not classified.	

### GHS label elements

Signal word	Warning
	  
Hazard statement	Flammable liquid and vapor. May be harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs (Lung) through prolonged or repeated exposure.
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.
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. If eye irritation persists: Get medical advice/attention. 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.

**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. 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
Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]	67924-34-9	40 - 60
2-Butoxyethanol	111-76-2	10 - 15
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene	98-56-6	10 - 15
Xylene	1330-20-7	10 - 15
Chromium	7440-47-3	3 - 5
m-Xylene	108-38-3	3 - 5
Ethylbenzene	100-41-4	1 - 5
Distillates (petroleum), hydrotreated light	64742-47-8	1 - 3
Nickel	7440-02-0	1 - 3
O-xylene	95-47-6	1 - 3
P-xylene	106-42-3	1 - 3

**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 if irritation or symptoms persist.

**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**

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

**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**

Extinguish with foam, carbon dioxide or dry powder.

**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. Solvent vapors may form explosive mixtures with air.

**Protective equipment and precautions for firefighters**

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**

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 leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**

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	Type	Value	Form
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m <sup>3</sup>	
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/m <sup>3</sup>	Inhalable fraction.
O-xylene (CAS 95-47-6)	STEL	150 ppm	
	TWA	100 ppm	
P-xylene (CAS 106-42-3)	STEL	150 ppm	
	TWA	100 ppm	
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.

**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.

**pH**

Not available.

**Melting point/Freezing point**

Not available.

**Boiling point**

250 - 407 °F (121.1 - 208.3 °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**

0.9 %

<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	> 1 (air=1)
<b>Relative density</b>	1.18 (77°F)
<b>Solubility (H<sub>2</sub>O)</b>	< 2 g/100 g
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>VOC (Weight %)</b>	577.7 g/l
<b>Molecular weight</b>	Not available.
<b>Other data</b>	
<b>Explosive limit</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.

## 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.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong reducing agents. Strong acids.
<b>Hazardous decomposition products</b>	Carbon oxides. Aldehydes. Nitrogen compounds.

## 11. Toxicological information

### Toxicological data

Components	Species	Test Results
2-Butoxyethanol (CAS 111-76-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	400 mg/kg
<i>Inhalation</i>		
LC50	Rat	450 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	560 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
m-Xylene (CAS 108-38-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	12100 mg/kg

Components	Species	Test Results
<i>Oral</i> LD50	Rat	4300 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
Xylene (CAS 1330-20-7)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	4300 mg/kg
<b>Routes of exposure</b>	Inhalation. Ingestion. Skin contact. Eye contact.	
<b>Toxicological information</b>	Occupational exposure to the substance or mixture may cause adverse effects.	
<b>Acute toxicity</b>	May be harmful if absorbed through skin or swallowed.	
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.	
<b>Respiratory sensitizer</b>	No data available.	
<b>Skin sensitization</b>	May cause an allergic skin reaction.	
<b>Mutagenicity</b>	No data available.	
<b>Carcinogenicity</b>	Suspected of causing cancer.	
<b>ACGIH Carcinogens</b>		
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 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.	
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.	
Xylene (CAS 1330-20-7)	A4 Not classifiable as a human carcinogen.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
2-Butoxyethanol (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.	
Chromium (CAS 7440-47-3)	3 Not classifiable as to carcinogenicity to humans.	
Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.	
m-Xylene (CAS 108-38-3)	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.	
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.	
<b>Reproductive toxicity</b>	No data available.	
<b>Specific target organ toxicity - single exposure</b>	No data available.	
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to organs (Lung) through prolonged or repeated exposure.	
<b>Aspiration hazard</b>	No data available.	
<b>Symptoms</b>	Vapors may cause drowsiness and dizziness. Skin and eye 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
Ethylbenzene (CAS 100-41-4)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia
Fish	LC50	Bluegill (Lepomis macrochirus)
		Fathead minnow (Pimephales promelas)
		12.1 mg/l, 96 hours
m-Xylene (CAS 108-38-3)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
		8.4 mg/l, 96 hours
O-xylene (CAS 95-47-6)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
		5.59 - 11.6 mg/l, 96 hours
P-xylene (CAS 106-42-3)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
		3.55 - 6.31 mg/l, 48 hours
		2.6 mg/l, 96 hours
Xylene (CAS 1330-20-7)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
		8 mg/l, 96 Hours
<b>Ecotoxicity</b>	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.	
<b>Persistence / degradability</b>	No data available.	
<b>Bioaccumulation</b>		
<b>Bioaccumulative potential</b>		
<b>Octanol/water partition coefficient log Kow</b>		
2-Butoxyethanol		0.83
O-xylene		3.12
Ethylbenzene		3.15
P-xylene		3.15
Xylene		3.2
m-Xylene		3.2
<b>Mobility</b>	The product contains organic solvents which will evaporate easily from all surfaces.	
<b>Other adverse effects</b>	No data available.	

## 13. Disposal considerations

<b>Disposal methods</b>	Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	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**

<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>	No
<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.
<b>IATA</b>	
<b>UN number</b>	UN1263
<b>Proper shipping name</b>	Paint
<b>Hazard class</b>	3
<b>Packing group</b>	III
<b>Labels required</b>	3
<b>Special precautions</b>	Read safety instructions, MSDS and emergency procedures before handling.
<b>IMDG</b>	
<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>	No
<b>Labels required</b>	3
<b>EmS</b>	F-E, S-E
<b>Special precautions</b>	Read safety instructions, MSDS and emergency procedures before handling.
<b>RID</b>	
<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>	No
<b>Labels required</b>	3
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.

## 15. Regulatory information

<b>Regulatory information</b>	This material safety data sheet was prepared in accordance with "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)".	
<b>Inventory status</b>		
<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)	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

<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.
<b>List of abbreviations</b>	Not available.