

# 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.
<b>Recommended Restrictions</b>	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	Category 2 (Lung)
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2
GHS label elements		
Signal word	Danger	
Hazard statement	Causes skin irritation. Causes serious eye	iul if swallowed. May be harmful in contact with skin. damage. May cause an allergic skin reaction. lamage to organs (Lung) through prolonged or h 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	e 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.,.alphatrifluorotoluene	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	Vapors may cause drowsiness and dizziness. Extreme irritation of eyes and mucous membranes, including burning and tearing. 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 meas	sures
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 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	Туре	Value	Form	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA			
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		
commended monitoring ocedures	Follow standard monitoring procedures.			
gineering 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.			
rsonal 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.			
	equipment.			

# 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Color	Gray.
Form	Liquid.
Odor	Characteristic of solvents.
Odor threshold	Not available.
рН	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 pressure	Not available.
Vapor density	> 1 (air=1)
Relative density	1.11 (77°F)

Solubility (H2O)	< 2 g/100 g
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC (Weight %)	577.7 g/l
Molecular weight	Not available.
Other data	
Explosive limit	Not available.
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
1,2,4-Trimethylbenzene (C/		
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
Distillates (petroleum), hyd	rotreated light (CAS 64742-47-8)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 5.28 mg/l, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg
Ethylbenzene (CAS 100-41	-4)	
Acute		
Dermal		
LD50	Rabbit	18156 mg/kg
Inhalation		
LC50	Rat	55000 mg/m³
Oral		
LD50	Rat	3500 mg/kg
Xylene (CAS 1330-20-7)		
Acute		
Oral		
LD50	Rat	4300 mg/kg

Toxicological informationOccupational exposure to the substance or mixture may cause adverse effects.Acute toxicityMay be harmful if absorbed through skin or swallowed.Skin corrosion/irritationCauses skin irritation.Serious eye damage/irritationCauses serious eye damage.Respiratory sensitizerNo data available.	cute toxicity	
Skin corrosion/irritationCauses skin irritation.Serious eye damage/irritationCauses serious eye damage.	-	
Skin corrosion/irritationCauses skin irritation.Serious eye damage/irritationCauses serious eye damage.	-	
	erious eye damage/irritation	
<b>Nespiratory serisitizer</b> No data available.	espiratory sensitizer	
Skin sensitization May cause an allergic skin reaction.		
Mutagenicity No data available.	utagenicity	
Carcinogenicity Suspected of causing cancer.	arcinogenicity	
ACGIH Carcinogens	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.	Chromium (CAS 7440-47	
Ethylbenzene (CAS 100-41-4) A3 Confirmed animal carcinogen with unknown relevance to humans.	Ethylbenzene (CAS 100-	
Nickel (CAS 7440-02-0) A5 Not suspected as a human carcinogen.		
	Xylene (CAS 1330-20-7)	
	IARC Monographs. Overall Evaluation of Carcinogenicity	
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.		
Nickel (CAS 7440-02-0) 2B Possibly carcinogenic to humans.		
Xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.	Xylene (CAS 1330-20-7)	
Reproductive toxicity No data available.	eproductive toxicity	
Specific target organ toxicity - No data available. single exposure		
<b>Specific target organ toxicity -</b> May cause damage to organs (Lung) through prolonged or repeated exposure. <b>repeated exposure</b>		
Aspiration hazard No data available.	spiration hazard	
Symptoms Vapors may cause drowsiness and dizziness. Extreme irritation of eyes and mucous membranes, including burning and tearing. Skin irritation. Sensitization.	/mptoms	
Other informationOrganic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.	ther information	

# 12. Ecological information

Ecotoxicological data Components		Species	Test Results	
1,2,4-Trimethylbenzene (CAS §	95-63-6)	00000		
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 (Oncorhynchus mykiss)	8 mg/l, 96 Hours	
Ecotoxicity	Toxic to a	Toxic to aquatic life with long lasting effects.		
Persistence / degradability	No data a	No data available.		
Bioaccumulation				
Bioaccumulative potentia Octanol/water partition		log Kow		
2-Butoxyethanol		0.83		
Ethylbenzene Xylene		3.15 3.2		
Mobility	The produ	ot contains organic solvents which will evapor	ate easily from all surfaces	
Other adverse effects	No data a			

#### 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		
Environmental hazards		
Marine pollutant	Yes	
Tunnel restriction code	(D/E)	
Labels required	3	
Special precautions	Read safety instructions, SDS and emergency procedures before handlin	ng.
ΙΑΤΑ		
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 hand	ling.
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 hand	ling.
RID		
UN number	UN1263	
Proper shipping name	Paint	
Hazard class	3	
Packing group Environmental hazards	III	
Marine pollutant	Yes	
Labels required	3 Read asfety instructions, CDC and amorganou presedures before bandlin	
Special precautions	Read safety instructions, SDS and emergency procedures before handlin	ıy.
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 Classification and Labelling of Chemicals (GHS)".	y Harmonized System of
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

No

Country(s) or region	Inventory name	On inventory (yes/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 co	mplies 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.