# SAFETY DATA SHEET

#### 1. Identification

GHS product identifier STEEL-IT #1002B Polyurethane (aerosol)

(M)SDS number SDS-1002b-NA

Version # 01

Issue date 03-01-2012
CAS # Mixture
Recommended use Not available.
Recommended Restrictions Not available.

Manufacturer information Stainless Steel Coatings, Inc

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### 2. Hazards identification

#### **GHS** classification

Physical hazardsFlammable aerosolsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2ACarcinogenicityCategory 2

Specific target organ toxicity, single

exposure

Specific target organ toxicity, repeated

exposure

**Environmental hazards** Hazardous to the aquatic environment,

long-term hazard

Category 3

Category 3 narcotic effects

Category 2 (Kidney, Lung)

#### **GHS** label elements





**Hazard statement** Causes serious eye irritation. Causes skin irritation. May cause drowsiness or dizziness. May

cause respiratory irritation. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs (Kidney, Lung) through prolonged or repeated exposure. Extremely flammable aerosol. Harmful to aquatic life

with long lasting effects.

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Ground/bond container and receiving equipment. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Avoid breathing gas/mist/vapors/spray. Avoid release

to the environment.

Response IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with

water/shower. 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 doctor if you fell unwell.

**Storage** Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. **Disposal** Dispose of waste and residues in accordance with local authority requirements.

**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
Propane	74-98-6	12-18

Acetone	67-64-1	10-16
4-Chloroalpha.,.alpha.,trifluorotoluene	98-56-6	10-15
Stoddard solvent	8052-41-3	10-15
Butane	106-97-8	8-14
Solvent naphtha (petroleum), medium aliph.	64742-88-7	3-5
Chromium	7440-47-3	2 - 3
Distillates, (petroleum), Hydrotreated Light	64742-47-8	1-2
Nickel	7440-02-0	1-2
Xylene	1330-20-7	<1
Ethylbenzene	100-41-4	<0.1
Quartz	14808-60-7	<0.1

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Prolonged or repeated contact may dry skin and cause irritation. Sensitization. Skin irritation.

### 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 Check for and remove any contact lenses. Immediately flush with plenty of water for up to 15

minutes. Get medical attention immediately.

Ingestion Get medical attention if any discomfort occurs.

Most important symptoms and effects, both acute and delayed

Upper respiratory tract irritation. Headaches, dizziness and nausea.

Do not use water jet as an extinguisher, as this will spread the fire.

Notes to physician

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Protective equipment and precautions for firefighters

Move container from fire area if it can be done without risk.

Carbon dioxide (CO2). Foam. Dry chemical. Water fog.

During fire, gases hazardous to health may be formed.

### 6. Accidental release measures

Personal precautions Ensure adequate ventilation. Wear suitable protective clothing. See Section 8 of the MSDS for

Personal Protective Equipment.

**Environmental precautions** 

**Methods for containment** 

Prevent entry into waterways, sewer, basements or confined areas.

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, 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.

Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

### 7. Handling and storage

Handling Use only with adequate ventilation. Wash thoroughly after handling. Observe good industrial

hygiene practices. Avoid inhalation of aerosols. Avoid contact with skin and eyes.

Storage Store locked up. Keep container tightly closed and in a well-ventilated place. Store in closed

original container at room temperature. Store away from incompatible materials.

### 8. Exposure controls / personal protection

#### **Control parameters**

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Components	Type	Value	Form
Acetone (67-64-1)	STEL	750 ppm	
•	TWA	500 ppm	
Butane (106-97-8)	TWA	1000 ppm	
Chromium (7440-47-3)	TWA	0.5 mg/m3	
Ethylbenzene (100-41-4)	TWA	20 ppm	
Nickel (7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.
Propane (74-98-6)	TWA	1000 ppm	
Quartz (14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Solvent naphtha (petroleum ), medium aliph. (64742-88-7)	TWA	5 mg/m3	Inhalable fraction.
Stoddard solvent (8052-41-3)	TWA	100 ppm	
Xylene (1330-20-7)	STEL	150 ppm	
,	TWA	100 ppm	

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.

In case of inadequate ventilation, use respiratory protection. In case of inadequate ventilation or Respiratory protection

when the product is heated, use suitable respiratory equipment with gas filter for organic gas.

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** Aerosol- Pressurized Liquid.

**Physical state** Liquid. Silver. Color **Form** Spray.

Odor Characteristic of solvents.

No data available Odor threshold Not established. pН Melting point/Freezing point Not established.

-0.4 - 350.6 °F (-18 - 177 °C) **Boiling point** Flash point < 137 °F (< 58.3 °C) (Propellant) **Evaporation rate** Faster than ether (butyl acetate = 1)

No data available. Flammability (solid, gas)

Flammability limits in air, lower,

% by volume

Flammability limits in air, upper, 10 %

% by volume

Vapor pressure < 0.48 mPa (at 10 °C/70°F)

Vapor density > 1 (Air = 1)

Relative density 0.849 (at 15°C/60°F) No data available Solubility (H2O) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not established. No data available **Viscosity** 

43.28 % Test Method: Product Formulation Data VOC (Weight %)

Not Applicable. **Bulk density** Percent volatile No data 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. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

Metal oxides.

### 11. Toxicological information

#### Toxicological data

Components	Test Results
Butane (106-97-8)	Acute Inhalation LC50 Mouse: 680 mg/l 2 Hours
Xylene (1330-20-7)	Acute Inhalation LC50 Rat: 658 mg/l 4 Hours Acute Oral LD50 Rat: 4300 mg/kg
Acetone (67-64-1)	Acute Dermal LD50 Rabbit: 20000 mg/kg
Propane (74-98-6)	Acute Inhalation LC50 Rat: 50 mg/l 8 Hours Acute Oral LD50 Rat: 5800 mg/kg Acute Inhalation LC50 Rat: > 1442.847 mg/l 15 Minutes

Eye contact. Inhalation. Skin contact. Routes of exposure

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

**Acute toxicity** Overexposure to mists/vapors of this product may cause headache, dizziness, nausea, and

respiratory tract irritation. Causes skin and eye irritation.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitization None known.

Skin sensitization May cause an allergic skin reaction.

Mutagenicity There is no data to indicate that any component present at greater than 0.1% may present a risk.

Suspected of causing cancer. Carcinogenicity

#### **ACGIH Carcinogens**

Acetone (CAS 67-64-1) A4 Not classifiable as a human carcinogen. 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.

Nickel (CAS 7440-02-0) A5 Not suspected as a human carcinogen.

A2 Suspected human carcinogen. Quartz (CAS 14808-60-7)

Solvent naphtha (petroleum), medium aliph. (CAS A4 Not classifiable as a human carcinogen.

64742-88-7)

Xylene (CAS 1330-20-7) A4 Not classifiable as a human carcinogen.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Chromium (CAS 7440-47-3) 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans. Nickel (CAS 7440-02-0) 1 Carcinogenic to humans.

Quartz (CAS 14808-60-7) Solvent naphtha (petroleum), medium aliph. (CAS 3 Not classifiable as to carcinogenicity to humans.

64742-88-7)

Stoddard solvent (CAS 8052-41-3) Xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

Specific target organ toxicity - single exposure Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Specific target organ toxicity - repeated exposure

May cause damage to the following organs through prolonged or repeated exposure: Respiratory

system.

**Teratogenicity** There is no data to indicate that any component present at greater than 0.1% may present a risk. Symptoms

Prolonged or repeated contact may dry skin and cause irritation. Sensitization. Skin irritation.

Upper respiratory tract irritation. Headaches, dizziness and nausea.

### 12. Ecological information

### **Ecotoxicological data**

Components

LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 8 Xylene (1330-20-7) mg/I 96 Hours

LC50 Fathead minnow (Pimephales promelas): > 100 mg/l 96 Acetone (67-64-1)

hours

**Test Results** 

**Ecotoxicity** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence / degradability No data available. No data available. **Bioaccumulation Mobility** No data available.

Other adverse effects Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 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 UN1950 **AEROSOLS UN proper shipping name** 

2.2 Transport hazard class(es) Subsidiary class(es) **Environmental hazards** No **Tunnel restriction code** D Labels required 2.2

Special precautions for user Not available.

**IATA** 

UN1950 **UN number UN proper shipping name** Aerosols Transport hazard class(es) 2 1 Subsidiary class(es) Nο **Environmental hazards** 22 Labels required **ERG Code** 10L

Not available. Special precautions for user

**IMDG** 

**UN** number

UN1950 **AEROSOLS** 

**UN proper shipping name** Transport hazard class(es) 2 Subsidiary class(es) 5T Marine pollutant No

Not available. Special precautions for user

RID

UN1950 **UN** number **AEROSOLS UN proper shipping name** 

Transport hazard class(es) 2.2 Subsidiary class(es) No **Environmental hazards** Labels required 22

Not available. Special precautions for user

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
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 that all composite	nents of this product comply 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.

Revision date 03-02-2012