



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** STEEL-IT #1002B Polyurethane (aerosol)

**Other means of identification**

(M)SDS number SDS-1002b-NA

**Recommended use** Paint / Industrial coating.

**Recommended restrictions** None known.

**Manufacturer / Importer / Supplier / Distributor information**

**Company name** Stainless Steel Coatings, Inc  
**Address** 835 Sterling Road  
**Telephone** (978) 365-9828  
**E-mail** sds@steel-it.com

**Emergency phone number** CHEMTREC, 1-800-424-9300

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable aerosols	Category 1
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
	Carcinogenicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2 (Kidney, Lung)
<b>OSHA defined hazards</b>	Not classified.	

**Label elements**



**Signal word** Danger

**Hazard statement** Extremely flammable aerosol. Causes skin irritation. May cause drowsiness or dizziness. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs (kidneys, lungs and respiratory system) through prolonged or repeated exposure.

**Precautionary statement**

**Prevention** Pressurized container: Do not pierce or burn, even after use. Obtain special instructions before use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapors/spray.

**Response** If skin irritation or rash occurs: Get medical advice/attention. Get medical advice/attention if you feel unwell.

**Storage** Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.

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

**Hazard(s) not otherwise classified (HNOC)** Not classified.

**Environmental hazards** Hazardous to the aquatic environment, long-term hazard Category 3

**Supplemental information**

**Precautionary statement**

**Prevention** Avoid release to the environment.

## 3. Composition/information on ingredients

**Mixtures**

Chemical name	CAS number	%
Propane	74-98-6	12-18
Acetone	67-64-1	10-16
4-Chloro-.alpha.,.alpha.,.alpha. a.-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
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.

#### 4. First-aid measures

<b>Inhalation</b>	If symptomatic, move to fresh air. Get medical attention if symptoms persist.
<b>Skin contact</b>	Wash area with soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	Check for and remove any contact lenses. Immediately flush with plenty of water for up to 15 minutes. Get medical attention immediately.
<b>Ingestion</b>	Get medical attention if any discomfort occurs.
<b>Most important symptoms/effects, acute and delayed</b>	Prolonged or repeated contact may dry skin and cause irritation. Sensitization. Skin irritation. Upper respiratory tract irritation. Headaches, dizziness and nausea.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Carbon dioxide (CO2). Foam. Dry chemical. Water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	Move container from fire area if it can be done without risk.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation. Wear suitable protective clothing. See Section 8 of the SDS for Personal Protective Equipment.
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**Methods and materials for containment and cleaning up**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

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.

**Environmental precautions**

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

**7. Handling and storage****Precautions for safe 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.

**Conditions for safe storage, including any incompatibilities**

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****Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm	
Chromium (CAS 7440-47-3)	PEL	1 mg/m3	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3 100 ppm	
Nickel (CAS 7440-02-0)	PEL	1 mg/m3	
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm	
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)	PEL	5 mg/m3	Mist.
Stoddard solvent (CAS 8052-41-3)	PEL	2900 mg/m3 500 ppm	

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.3 mg/m3 0.1 mg/m3 2.4 millions of particle	Total dust. Respirable. Respirable.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL TWA	750 ppm 500 ppm	
Butane (CAS 106-97-8)	STEL	1000 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.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)	TWA	5 mg/m3	Inhalable fraction.
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	

**US NIOSH Pocket Guide to Chemical Hazards: Ceiling Limit Value and Time Period (if specified)**

Components	Type	Value
Stoddard solvent (CAS 8052-41-3)	Ceiling	1800 mg/m3

**US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	TWA	590 mg/m3 250 ppm	
Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm	
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3	
Ethylbenzene (CAS 100-41-4)	TWA	435 mg/m3 100 ppm	
Nickel (CAS 7440-02-0)	TWA	0.015 mg/m3	
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm	
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)	TWA	5 mg/m3	Mist.
Stoddard solvent (CAS 8052-41-3)	TWA	350 mg/m3	

**US NIOSH Pocket Guide to Chemical Hazards: Short Term Exposure Limit (STEL)**

Components	Type	Value	Form
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3 125 ppm	
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)	STEL	10 mg/m3	Mist.

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
Ethylbenzene (CAS 100-41-4)	0.7 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Appropriate engineering controls** Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Use approved safety goggles or face shield.

**Skin protection****Hand protection**

Wear appropriate chemical resistant gloves. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.

**Other**

Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.

**Respiratory protection**

In case of inadequate ventilation, use respiratory protection. In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter for organic gas.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties**

**Appearance** Aerosol- Pressurized Liquid.

**Physical state** Liquid.

**Form** Spray.

**Color** Silver.

**Odor** Characteristic of solvents.

<b>Odor threshold</b>	No data available.
<b>pH</b>	Not established.
<b>Melting point/freezing point</b>	Not established.
<b>Initial boiling point and boiling range</b>	-0.4 - 350.6 °F (-18 - 177 °C)
<b>Flash point</b>	< 99.0 °F (< 37.2 °C)
<b>Evaporation rate</b>	Faster than ether (butyl acetate = 1)
<b>Flammability (solid, gas)</b>	No data available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	2 %
<b>Flammability limit - upper (%)</b>	10 %
<b>Vapor pressure</b>	< 0.48 mPa (at 10 °C/ 70°F)
<b>Vapor density</b>	> 1 (Air = 1)
<b>Relative density</b>	0.849 (at 15°C/ 60°F)
<b>Solubility(ies)</b>	No data available.
<b>Partition coefficient (n-octanol/water)</b>	No data available.
<b>Auto-ignition temperature</b>	No data available.
<b>Decomposition temperature</b>	Not established.
<b>Viscosity</b>	No data available.
<b>Other information</b>	
<b>Bulk density</b>	Not applicable.
<b>Oxidizing properties</b>	No data available.
<b>Percent volatile</b>	No data available.
<b>Solubility (other)</b>	Not established.
<b>VOC (Weight %)</b>	43.28 % Test Method: Product Formulation Data

## 10. Stability and reactivity

<b>Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat, sparks, flames. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Metal oxides.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Ingestion may cause nausea, headache and dizziness.
<b>Inhalation</b>	May cause respiratory tract irritation. May cause drowsiness or dizziness.
<b>Skin contact</b>	Causes skin irritation. May cause sensitization by skin contact.
<b>Eye contact</b>	Causes severe eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** Causes skin and eye irritation. Sensitization. Prolonged or repeated contact may dry skin and cause irritation. Upper respiratory tract irritation. Headaches, dizziness and nausea.

### Information on toxicological effects

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

Components	Species	Test Results
Acetone (CAS 67-64-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	20 ml/kg
<i>Inhalation</i>		
LC50	Rat	50 mg/l, 8 Hours
<i>Oral</i>		
LD50	Rat	5800 mg/kg
Butane (CAS 106-97-8)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Mouse	680 mg/l, 2 Hours
	Rat	658 mg/l, 4 Hours
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
Propane (CAS 74-98-6)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	> 1442 mg/l, 15 Minutes
Stoddard solvent (CAS 8052-41-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 5.2 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory sensitization</b>	None known.	
<b>Skin sensitization</b>	May cause an allergic skin reaction.	
<b>Germ cell mutagenicity</b>	There is no data to indicate that any component present at greater than 0.1% may present a risk.	
<b>Carcinogenicity</b>	Suspected of causing cancer.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
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)	1 Carcinogenic to humans.	
Quartz (CAS 14808-60-7)	1 Carcinogenic to humans.	
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)	3 Not classifiable as to carcinogenicity to humans.	
<b>NTP Report on Carcinogens</b>		
Nickel (CAS 7440-02-0)	Known To Be Human Carcinogen.	
	Reasonably Anticipated to be a Human Carcinogen.	
Quartz (CAS 14808-60-7)	Known To Be Human Carcinogen.	
<b>Reproductive toxicity</b>	Not available.	
<b>Specific target organ toxicity - single exposure</b>	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.	
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to the following organs through prolonged or repeated exposure: Respiratory system. Lungs.	

Aspiration hazard Not available.

## 12. Ecological information

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

Components	Species	Test Results
Acetone (CAS 67-64-1)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 100 mg/l, 96 hours Rainbow trout, donaldson trout (Oncorhynchus mykiss) 4740 - 6330 mg/l, 96 hours

Persistence and degradability No data available.

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1)	-0.24
Propane (CAS 74-98-6)	2.36
Butane (CAS 106-97-8)	2.89
Stoddard solvent (CAS 8052-41-3)	3.16 - 7.15

Mobility in soil Not available.

Other adverse effects Not available.

## 13. Disposal considerations

Disposal instructions 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.

Hazardous waste code D001: Waste Flammable material with a flash point <140 °F

#### US RCRA Hazardous Waste U List: Reference

Acetone (CAS 67-64-1) U002

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

### DOT

UN number	UN1950
UN proper shipping name	Aerosols
Transport hazard class(es)	2.1
Subsidiary class(es)	-
Packing group	-
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

### IATA

UN number	UN1950
UN proper shipping name	Aerosols
Transport hazard class(es)	2.1
Subsidiary class(es)	-
Packaging group	-
Environmental hazards	No
Labels required	2.1
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

### IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Subsidiary class(es)	-
Packaging group	-
Environmental hazards	
Marine pollutant	No
Labels required	2.1

**EmS** Not available.  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** This substance/mixture is not intended to be transported in bulk.

## 15. Regulatory information

**US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene (CAS 98-56-6) 1.0 % One-Time Export Notification only.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1)	LISTED
Butane (CAS 106-97-8)	LISTED
Chromium (CAS 7440-47-3)	LISTED
Ethylbenzene (CAS 100-41-4)	LISTED
Nickel (CAS 7440-02-0)	LISTED
Propane (CAS 74-98-6)	LISTED

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - Yes  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** Yes

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Chromium	7440-47-3	2 - 3
Nickel	7440-02-0	1-2
Ethylbenzene	100-41-4	<0.1

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Chromium (CAS 7440-47-3)  
Ethylbenzene (CAS 100-41-4)  
Nickel (CAS 7440-02-0)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)  
Propane (CAS 74-98-6)

**Safe Drinking Water Act (SDWA)** Not regulated.

#### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 % weight/volumn

#### DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

**Food and Drug Administration (FDA)** Not regulated.

### US state regulations

#### US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)  
Butane (CAS 106-97-8)  
Chromium (CAS 7440-47-3)  
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)



Ethylbenzene (CAS 100-41-4)  
 Nickel (CAS 7440-02-0)  
 Propane (CAS 74-98-6)  
 Quartz (CAS 14808-60-7)  
 Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)  
 Stoddard solvent (CAS 8052-41-3)

**US. New Jersey Worker and Community Right-to-Know Act**

Butane (CAS 106-97-8)	500 lbs
Chromium (CAS 7440-47-3)	500 lbs
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	10000 lbs
Ethylbenzene (CAS 100-41-4)	500 lbs
Nickel (CAS 7440-02-0)	500 lbs
Propane (CAS 74-98-6)	500 lbs

**US. Pennsylvania RTK - Hazardous Substances**

Acetone (CAS 67-64-1)  
 Butane (CAS 106-97-8)  
 Chromium (CAS 7440-47-3)  
 Distillates (petroleum), hydrotreated light (CAS 64742-47-8)  
 Ethylbenzene (CAS 100-41-4)  
 Nickel (CAS 7440-02-0)  
 Propane (CAS 74-98-6)  
 Quartz (CAS 14808-60-7)  
 Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)  
 Stoddard solvent (CAS 8052-41-3)

**US. Rhode Island RTK**

Acetone (CAS 67-64-1)  
 Butane (CAS 106-97-8)  
 Chromium (CAS 7440-47-3)  
 Ethylbenzene (CAS 100-41-4)  
 Nickel (CAS 7440-02-0)  
 Propane (CAS 74-98-6)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Ethylbenzene (CAS 100-41-4)  
 Nickel (CAS 7440-02-0)  
 Quartz (CAS 14808-60-7)

**International Inventories**

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

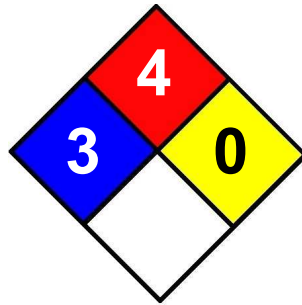
\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

<b>Issue date</b>	02-September-2013
<b>Revision date</b>	-
<b>Version #</b>	01

**NFPA Ratings**



**References**

HSDB  
RTECS  
IUCLID

**Disclaimer**

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