

1. Identification

Product identifier STEEL-IT 1006B Polyurethane Aerosol – Charcoal

Other means of identification

Product code FGAE1006B (14 oz.), FGAE1006C (4.5 oz.), CASE1006B (case of 12 FGAE1006B), CASE1006C (case of 12 FGAE1006C)

Recommended use of the chemical and restrictions on use

Recommended use Paint / Industrial coating (topcoat).
Category: Pigmented metallic coating.

Recommended restrictions Uses other than the recommended use.
Do not spray on an open flame or other ignition source.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Stainless Steel Coatings, Inc.

Address 835 Sterling Road
Lancaster, MA 01523-2915
United States of America

Telephone +1-978-365-9828

E-mail sds@STEEL-IT.com

Distributor RKC General Trading company LLC-FZ
Robin Kurikesu

Address Ras al khor Industrial area 1
58HQ J3 - 16A Street, Dubai
United Arab Emirates

Telephone +971554233103, +97143232335

E-mail admin@rkcustomuae.com

Emergency telephone CHEMTREC:
+1-703-527-3887 (International)

2. Hazards identification

Physical hazards	Aerosols	Category 1
	Gases under pressure	Compressed gas
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
	Carcinogenicity	Category 1B
	Reproductive toxicity (inhalation)	Category 2
Environmental hazards	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer. Suspected of damaging fertility or the unborn child by inhalation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

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

Other hazards which do not result in classification

May displace oxygen and cause rapid suffocation.

Supplemental information

None.

3. Composition/information on ingredients

Mixture

Hazardous components

Chemical name	CAS number	%
Acetone	67-64-1	15 - 25
Propane	74-98-6	10 - 20
Benzene, 1-chloro-4-(trifluoromethyl)-	98-56-6	5 - 15
Distillates (petroleum), hydrotreated light	64742-47-8	5 - 15
Butane	106-97-8	5 - 10
n-Butyl acetate	123-86-4	2 - 7
Nickel	7440-02-0	< 1
Ethylbenzene	100-41-4	< 0.4
Butanone oxime	96-29-7	< 0.2

Non-hazardous components

Chemical name	CAS number	%
C.I. Pigment black 028	68186-91-4	< 4
Chromium	7440-47-3	< 2
C.I. Pigment blue 28	1345-16-0	< 0.4

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits.

4. First-aid measures

Inhalation

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Fatigue. Nausea, vomiting. Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themselves. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed such as: Carbon oxides. Chlorine compounds. Fluorine compounds. Fumes of metal oxides.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Fight fire from protected location or safe distance. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors/spray. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Pick up undamaged aerosol cans mechanically. Dike leaked material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water. Retain and dispose of contaminated wash water. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not breathe mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Persons susceptible for allergic reactions should not handle this product. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Mechanical ventilation or local exhaust ventilation may be required. Do not enter storage areas or confined spaces unless adequately ventilated. Use only outdoors or in a well-ventilated area. Oxygen concentration should not fall below 19.5 % at sea level (pO ₂ = 135 mmHg). Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
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Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection**Occupational exposure limits****US. ACGIH Threshold Limit Values (TLV)**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
	TWA	0.5 mg/m3	Inhalable fraction.
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
	STEL	150 ppm	
n-Butyl acetate (CAS 123-86-4)	TWA	50 ppm	
	TWA	1.5 mg/m3	Inhalable fraction.

Bahrain. TLVs. Resolution No. 4 Regarding the Management of Hazardous Chemicals, Exposure Limits for Dangerous and Poisonous Chemicals, Annex. 3, as amended

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	2380 mg/m3
		1000 ppm
	TWA	1780 mg/m3
Butane (CAS 106-97-8)		750 ppm
	TWA	1900 mg/m3
		800 ppm
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0.05 mg/m3
	TWA	0.05 mg/m3
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m3
		125 ppm
	TWA	434 mg/m3
Nickel (CAS 7440-02-0)		100 ppm
	TWA	0.05 mg/m3

Egypt. OELs. Threshold limits of air pollutants in the workplace (Decree No. 338, Annex 8), as amended

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	1780 mg/m3	
		750 ppm	
	TWA	1187 mg/m3	
Butane (CAS 106-97-8)		500 ppm	
	TWA	1900 mg/m3	
		800 ppm	
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
	STEL	543 mg/m3	
Ethylbenzene (CAS 100-41-4)		125 ppm	
	TWA	434 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	950 mg/m3	
		200 ppm	

Egypt. OELs. Threshold limits of air pollutants in the workplace (Decree No. 338, Annex 8), as amended

Components	Type	Value	Form
	TWA	713 mg/m ³	
		150 ppm	
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m ³	Total dust.

GCC. OELs. Occupational Exposure Limits for Hazardous Chemical Substances (Common System for the Management of Hazardous Chemicals in the Gulf Cooperation Council for the Arab States of the Gulf, Annex 3)

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	2380 mg/m ³
		1000 ppm
	TWA	1780 mg/m ³
		750 ppm
Butane (CAS 106-97-8)	TWA	1900 mg/m ³
		800 ppm
Chromium (CAS 7440-47-3)	TWA	0.05 mg/m ³
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m ³
		125 ppm
	TWA	434 mg/m ³
		100 ppm
Nickel (CAS 7440-02-0)	TWA	0.05 mg/m ³

Jordan. Resolution No. 43 (1998) Safety and Protection from Industrial Equipment, Machinery and Workplaces (Table of Permissible Threshold Limits of Workers Exposure to Chemicals)

Components	Type	Value
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m ³
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m ³
		125 ppm
	TWA	435 mg/m ³
		100 ppm
Nickel (CAS 7440-02-0)	TWA	0.1 mg/m ³

Kuwait. Maximum Limits for Occupational Exposure to Chemical Substances (TLVs) Articles 19 and 20 of the Environmental Protection Law No. 42 of 2014, as amended

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	2400 mg/m ³
		1000 ppm
	TWA	1800 mg/m ³
		750 ppm
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0.5 mg/m ³
Chromium (CAS 7440-47-3)	TWA	0.05 mg/m ³
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m ³
		125 ppm
	TWA	435 mg/m ³
		100 ppm
Nickel (CAS 7440-02-0)	TWA	1 mg/m ³
Propane (CAS 74-98-6)	TWA	2500 ppm

UAE. OELs. Maximum Allowable Limits for Air Pollutants in Working Areas [Law to Protect the Air from Pollution, Resolution of the Cabinet of Ministers No. 12 of 2006], as amended

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	2380 mg/m ³
		1000 ppm

UAE. OELs. Maximum Allowable Limits for Air Pollutants in Working Areas [Law to Protect the Air from Pollution, Resolution of the Cabinet of Ministers No. 12 of 2006], as amended

Components	Type	Value
	TWA	1780 mg/m ³
		750 ppm
Butane (CAS 106-97-8)	TWA	1900 mg/m ³
		800 ppm
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0.2 mg/m ³
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m ³
		125 ppm
	TWA	434 mg/m ³
		100 ppm
Nickel (CAS 7440-02-0)	TWA	0.05 mg/m ³

UAE. Abu Dhabi. TLVs. Maximum Allowable Limits for Air Pollutants in Working Areas (AD EHSMS RF - Occupational Standards and Guideline Values, Schedule A)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	1782 mg/m ³	
		750 ppm	
	TWA	1188 mg/m ³	
		500 ppm	
Butane (CAS 106-97-8)	TWA	800 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0.2 mg/m ³	
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m ³	
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m ³	
		125 ppm	
	TWA	434 mg/m ³	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	950 mg/m ³	
		200 ppm	
	TWA	713 mg/m ³	
		150 ppm	
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m ³	Inhalable fraction.
		0.5 mg/m ³	
Propane (CAS 74-98-6)	TWA	800 ppm	

U.A.E. Dubai. OELs. Maximum Allowable Limits for Indoor Air Pollutants (Regulation IO-4.0, Appendix 12, Tables 2 & 2A)

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	1000 ppm
	TWA	750 ppm
Butane (CAS 106-97-8)	TWA	800 ppm
n-Butyl acetate (CAS 123-86-4)	TWA	200 ppm

Biological limit values

ACGIH Biological Exposure Indices (BEI)

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*
C.I. Pigment black 028 (CAS 68186-91-4)	0.7 µg/l	Total chromium	Urine	*
Chromium (CAS 7440-47-3)	0.7 µg/l	Total chromium	Urine	*

ACGIH Biological Exposure Indices (BEI)

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Nickel (CAS 7440-02-0)	5 µg/l	Nickel	Urine	*

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

Kuwait. BEIs. Maximum Allowable Limits of Exposure to Biological Effect (Decision No. 5 of 2017, Appendix 1-4)

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	100 mg/l	acetone	Urine	*
Ethylbenzene (CAS 100-41-4)	1.5 g/g	Mandelic acid	Creatinine in urine	*

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

Exposure guidelines**Qatar. OELs. Maximum Concentrations of Hazardous Chemicals in the Workplace (Resolution No. 4 of 2005, Standards Permissible in Confined Workplaces, Annex 3; VI)**

Butane (CAS 106-97-8)
Nickel (CAS 7440-02-0)

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves. Glove material: Nitrile. Use gloves with breakthrough time of 15 +/- 15 minutes. Minimum glove thickness 0.381 (15 mil) mm. 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.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear respiratory protection with combination filter (dust and gas filter) during spraying operations. Check with respiratory protective equipment suppliers.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties**Appearance****Physical state**

Liquid.

Form

Aerosol - Pressurized liquid (spray).

Color

Charcoal gray.

Odor

Characteristic of solvents.

Odor threshold

Property has not been measured.

pH

Not applicable (material is insoluble in water).

Melting point/freezing point

> -139 °F (> -95 °C)

Initial boiling point and boiling range

> 132.8 °F (> 56 °C)

Flash point

Not applicable, product is an aerosol dispenser.

Evaporation rate

Property has not been measured.

Flammability (solid, gas)

Extremely flammable aerosol.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 0.6 %

Explosive limit - upper (%) 12.8 %

Vapor pressure 70 psi (68 °F (20 °C))

Vapor density 9.6 (Air=1) (77 °F (25 °C))

Relative density 1.02 (Water=1) (77 °F (25 °C))

Solubility(ies)

Solubility (water) (< 0.1%) Insoluble in water.

Partition coefficient (n-octanol/water) Not applicable, product is a mixture.

Auto-ignition temperature > 456.8 °F (> 236 °C) (liquid)

Decomposition temperature 447 °F (230.6 °C) (liquid)

Viscosity Property has not been measured.

Other information

Density 1.02 g/cm³ (77 °F (25 °C))

Explosive properties Not explosive.

Kinematic viscosity 2700 mm²/s (77 °F (25 °C))

Oxidizing properties Not oxidizing.

Particle size Does not contain nanomaterials.

VOC MIR CA < 1.25

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contents under pressure. Do not puncture. Protect against direct sunlight. Avoid heat, sparks, open flames and other ignition sources. In a fire or if heated, a pressure increase will occur and the container may burst or explode. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Strong acids. Halogens. Chlorine.

Hazardous decomposition products Thermal decomposition of this product can generate carbon monoxide and carbon dioxide. Fumes of metal oxides. Chlorine compounds. Fluorine compounds.

11. Toxicological information

Information on likely routes of exposure

Inhalation Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. May cause drowsiness or dizziness. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction. May be absorbed through the skin.

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness or dizziness. Headache. Fatigue. Nausea, vomiting. Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themselves. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	> 15700 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i>		
LC50	Rat	76 mg/l, 4 Hours

Components	Species	Test Results
Oral LD50	Rat	5800 mg/kg
Butane (CAS 106-97-8)		
Acute Inhalation LC50	Rat	658 mg/l, 4 Hours
Butanone oxime (CAS 96-29-7)		
Acute Dermal LD50	Rabbit	> 1000 mg/kg, 24 Hours
Oral LD50	Rat	> 900 mg/kg
Ethylbenzene (CAS 100-41-4)		
Acute Dermal LD50	Rabbit	15400 mg/kg
Inhalation LC50	Rat	17.4 mg/l, 4 hours
Oral LD50	Rat	3500 - 4700 mg/kg
n-Butyl acetate (CAS 123-86-4)		
Acute Inhalation LC50	Rat	2000 ppm, 4 Hours
Oral LD50	Rat	10770 mg/kg
Propane (CAS 74-98-6)		
Acute Inhalation Gas LC50	Rat	> 80000 ppm, 15 Minutes
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Does not meet classification criteria.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	May cause cancer.	
Bahrain. OELs. Resolution No. 4 Regarding the Management of Hazardous Chemicals, Annex 3, (2006)		
Nickel (CAS 7440-02-0)	Carcinogen category 1.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Benzene, 1-chloro-4-(trifluoromethyl)- (CAS 98-56-6)	2B Possibly carcinogenic to humans.	
Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.	
Nickel (CAS 7440-02-0)	2B Possibly carcinogenic to humans.	
Kuwait OELs (Decision No. 210): Carcinogen Category		
Acetone (CAS 67-64-1)	A4 Not classifiable as a human carcinogen.	
Nickel (CAS 7440-02-0)	A1 Confirmed human carcinogen.	
UAE - Abu Dhabi TLVs: Carcinogen Category		
Acetone (CAS 67-64-1)	GROUP A4 Not classifiable as a human carcinogen.	
Ethylbenzene (CAS 100-41-4)	GROUP A3 Confirmed animal carcinogen with unknown relevance to humans.	
Nickel (CAS 7440-02-0)	GROUP A5 Not suspected as a human carcinogen.	
UAE OELs Hazard Designation: Carcinogen category		
Nickel (CAS 7440-02-0)	C1 Carcinogenic.	

Reproductive toxicity	Suspected of damaging fertility or the unborn child by inhalation.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.
Further information	Symptoms may be delayed.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components	Species	Test Results	
Acetone (CAS 67-64-1)			
Aquatic			
<i>Acute</i>			
Crustacea	LC50	Daphnia pulex	8800 mg/l, 48 Hours
Fish	LC50	Pimephales promelas	7163 mg/l, 96 Hours
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	> 79 mg/l, 21 days
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)			
Aquatic			
<i>Acute</i>			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
Ethylbenzene (CAS 100-41-4)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	1.81 - 2.38 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.2 mg/l, 96 hours
<i>Chronic</i>			
Crustacea	EC50	Ceriodaphnia dubia	3.6 mg/l, 7 days
Nickel (CAS 7440-02-0)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	1 mg/l, 48 hours
	LC50	Calanoid copepod (Eurytemora affinis)	>= 7.35 - <= 12.12 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1)	-0.24
Benzene, 1-chloro-4-(trifluoromethyl)- (CAS 98-56-6)	3.6
Butane (CAS 106-97-8)	2.89
Ethylbenzene (CAS 100-41-4)	3.15

Mobility in soil The product is insoluble in water. Not expected to be mobile in soil.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Waste from residues / unused products Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information**IATA**

UN number	1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	-
Environmental hazards	No
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	1950
UN proper shipping name	AEROSOLS, flammable
Transport hazard class(es)	
Class	2
Subsidiary risk	-
Packing group	-
Environmental hazards	
Marine pollutant	No
EmS	F-D, S-U
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 Not established.

15. Regulatory information**Safety, health and environmental regulations specific for the product in question**

This SDS complies with the requirements of Egyptian Standard (ES) 8398/2020 on Safety Data Sheet for Chemical Products – Content and Order of Sections.

Bahrain. Chemicals Subject to the Prior Informed Consent Procedure under the Rotterdam Convention (Law No. 14 of 2012, Annex III)

Not applicable.

Bahrain. CWC Chemical Substances (Decree No. 6 of 1997, Schedules 1, 2 and 3; Law No. 51 of 2009)

Not listed.

Bahrain. Prohibited Chemicals (Ministry of State for Municipal & Environmental Affairs, Resolution No 7 of 2002, On Control of Importing & Use of Prohibited & Restricted Chemicals, Table 1)

Not listed.

Bahrain. Severely Restricted Chemicals (Ministry of State for Municipal & Environmental Affairs, Resolution No 7 of 2002, On Control of Importing & Use of Prohibited & Restricted Chemicals, Table 2)

C.I. Pigment blue 28 (CAS 1345-16-0)

Nickel (CAS 7440-02-0)

Egypt. Non-Restricted Substances (Unified list of hazardous substances, List C)

Butane (CAS 106-97-8)

Ethylbenzene (CAS 100-41-4)

n-Butyl acetate (CAS 123-86-4)

Nickel (CAS 7440-02-0)

Egypt. Substances Requiring Permits (Unified list of hazardous substances, List B)

Acetone (CAS 67-64-1)

Oman. List of Prohibited Chemical Substances (MD 25/2009. Annex 2)

Not listed.

Oman. List of Restricted Chemical Substances (MD 25/2009. Annex 1)

Not listed.

Saudi Arabia. Jubail & Yanbu. Hazardous Air Pollutants (Royal Commission for Jubail & Yanbu Environmental Regulations, V.1. 2004, Table 2C)

Ethylbenzene (CAS 100-41-4)

Nickel (CAS 7440-02-0)

UAE. Abu Dhabi. CWC (Chemicals Weapons Convention) Banned from Entry/Import (Standard Operating Procedures for Permitting of Chemicals and Hazardous Materials)

Not listed.

UAE. Abu Dhabi. Narcotic Precursors Banned from Entry/Import (Standard Operating Procedures for Permitting of Chemicals and Hazardous Materials)

Acetone (CAS 67-64-1)

UAE. Ban on Importing and Circulation of Harmful Pesticides for Health and Environment (Ministerial Decree No. 193)

Not listed.

UAE. Dubai. CWC (Chemicals Weapons Convention) Federal Environmental Agency, Code of Practice

Not listed.

UAE. Dubai. Illicit Drug Traffic, scheduled substances (UN Convention against illicit traffic in narcotic drugs and psychotropic substances), Ministry of Health, Code of Practice

Acetone (CAS 67-64-1)

UAE. Dubai. Prohibited and restricted imports. Ministry of Environmental and Water, Code of Practice

Not listed.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
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)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply 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

Issue date	27-October-2023
Revision date	-
Version #	01
Disclaimer	Stainless Steel Coatings, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.