

## CFI 704 Cleaner

**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** CFI 704 Cleaner  
**Common Name:** Solvent Blend  
**SDS Number:** I52  
**Revision Date:** 7/9/2015  
**Version:** 1  
**Supplier Details:** Coatings For Industry, Inc.  
319 Township Line Road  
Souderton, PA 18964

**Emergency:** Infotrac  
**Contact:** USA: 1-800-535-5053 / International :352-323-3500  
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**2 HAZARDS IDENTIFICATION****Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Physical, Flammable Liquids, 2  
Health, Aspiration hazard, 1  
Health, Skin corrosion/irritation, 2  
Health, Serious Eye Damage/Eye Irritation, 2 A  
Health, Specific target organ toxicity - Single exposure, 3  
Health, Reproductive toxicity, 2  
Health, Specific target organ toxicity - Repeated exposure, 2  
Environmental, Hazards to the aquatic environment - Acute, 2

**GHS Label elements, including precautionary statements**

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**

**GHS Hazard Statements:**

H225 - Highly flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H361 - Suspected of damaging fertility or the unborn child  
H373 - May cause damage to organs through prolonged or repeated exposure  
H401 - Toxic to aquatic life

**GHS Precautionary Statements:**

P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/light/equipment.

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P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P403+233 - Store in a well ventilated place. Keep container tightly closed.  
 P501 - Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.

**Hazards not otherwise classified (HNOC) or not covered by GHS**

**Inhalation:** High concentrations and/or long term exposure may irritate mucous membranes of respiratory tract. Headaches, dizziness and nausea, as well as unconsciousness may result from overexposure to high concentrations over extended periods.

**Skin Contact:** Prolonged and repeated liquid contact can cause defatting and drying of the skin which may result in skin irritation or dermatitis.

**Eye Contact:** Vapors and liquids may both cause eye irritation.

**3 COMPOSITION/INFORMATION OF INGREDIENTS****Ingredients:**

Cas#	%	Chemical Name
108-88-3	60-70%	Toluene
67-64-1	30-40%	Acetone
67-63-0	1.5-5%	Isopropanol

**4 FIRST AID MEASURES**

**Inhalation:** If breathing difficulties, dizziness, or light-headedness occur when working in areas of high vapor concentration, seek to get victim to fresh air. If breathing stops, administer artificial respiration, preferably mouth to mouth.

**Skin Contact:** Immediately flush skin with water. Remove contaminated clothing and shoes. Wash affected areas with soap and water. Launder clothing before reuse. Get medical attention if irritation persists.

**Eye Contact:** Immediately flush with large amounts of water for at least 15 minutes lifting upper and lower lids open. Get immediate medical attention if irritation persists.

**Ingestion:** Do not induce vomiting. If vomiting spontaneously occurs, keep head below hips to prevent aspiration of liquid into the lungs. Do not give liquids. Get medical attention immediately.

**5 FIRE FIGHTING MEASURES**

**Flash Point:** 0F (-18C)  
**Flash Point Method:** TCC  
**LEL:** 1.27  
**UEL:** 12.8

Extinguishing Media - Water fog, "alcohol" foam, dry chemical, carbon dioxide.

Special Fire Fighting Procedures and Precautions - Evacuate hazard area of unprotected personnel. Wear proper protective clothing, i.e. bunker coat, helmet and face shield, gloves, rubber boots. Use NIOSH approved self contained breathing apparatus. Use water to cool exposed containers.

Unusual Fire and Explosion Hazards - Vapor is heavier than air and may travel a considerable distance to source of ignition and flashback. Handle as a flammable liquid.

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**ACCIDENTAL RELEASE MEASURES**

**Warning -FLAMMABLE!** Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Prevent liquid from entering sewers, watercourses or low areas. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas.

**Large Spills -** Evacuate the hazard area of unprotected personnel. Wear appropriate protective equipment. Shut off source of leak. Contain liquid. If vapor cloud forms, water fog may be used to suppress; contain runoff. Remove liquid with vacuum trucks/pumps to storage/salvage containers. Soak up residue with absorbent materials; place in non-leaking containers to await proper disposal. Flush area to remove trace; collect flushings, dispose of properly.

**Small Spills -** Take up with an absorbent material and place in non-leaking container; seal tightly and dispose of properly.

Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.

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**HANDLING AND STORAGE****Handling Precautions:**

Danger -- FLAMMABLE!!

Keep liquid and vapor away from heat, sparks and flame. Use spark resistant tools. Ground all equipment. Bond and ground transfer equipment. Do not weld, drill or grind on containers. Empty containers may contain explosive or flammable vapor.

In operations where spilling and splashing occur, use impervious apron and boots to protect body. Eyewash stations and showers should be readily available. Spark resistant tools are recommended. Wash hands thoroughly with soap and water after handling.

**Storage Requirements:**

Keep containers tightly closed when not in use. Store containers properly. Surfaces that are hot may ignite liquid material even in absence of spark or flame.

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**EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering Controls:**

Provide exhaust ventilation in volume and pattern to keep TLV and explosion limits of hazardous ingredients below acceptable and stated limits.

**Personal Protective Equipment:**

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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Components with workplace control parameters

**Toluene (108-88-3) [60-70%]**

TWA	100 ppm 375 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
STEL	150 ppm 560 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
TWA	200 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z2 Z37.12- 1967
CEIL	300 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z2 Z37.12- 1967
Peak	500 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z2 Z37.12- 1967
TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)
Visual impairment		
Female reproductive		
Pregnancy loss		
2010 Adoption		
Substances for which there is a Biological Exposure Index or Indices (see BEI section)		
Not classifiable as a human carcinogen		
TWA	100 ppm 375 mg/m3	USA. NIOSH Recommended Exposure Limits
ST	150 ppm 560 mg/m3	USA. NIOSH Recommended Exposure Limits

**Acetone (67-64-1) [30-40%]**

TWA	500 ppm	USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract irritation		
Central Nervous System impairment		
Hematologic effects		
Substances for which there is a Biological Exposure Index or Indices (see BEI section)		
Not classifiable as a human carcinogen		
STEL	750 ppm	USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract irritation		
Central Nervous System impairment		
Hematologic effects		
Substances for which there is a Biological Exposure Index or Indices (see BEI section)		
Not classifiable as a human carcinogen		
STEL	1,000 ppm 2,400 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors.		
TWA	1,000 ppm 2,400 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
The value in mg/m3 is approximate.		

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TWA            250 ppm            USA. NIOSH Recommended  
                   590 mg/m3           Exposure Limits

TWA            750 ppm            USA. OSHA - TABLE Z-1 Limits for  
                   1,800 mg/m3       Air Contaminants - 1910.1000

### Isopropanol (67-63-0) [1.5-5%]

TWA            200 ppm            USA. ACGIH Threshold Limit Values (TLV)  
 Eye & Upper Respiratory Tract irritation  
 Central Nervous System impairment  
 Not classifiable as a human carcinogen

STEL           400 ppm            USA. ACGIH Threshold Limit Values (TLV)  
 Eye & Upper Respiratory Tract irritation  
 Central Nervous System impairment  
 Not classifiable as a human carcinogen

TWA            400 ppm            USA. OSHA - TABLE Z-1 Limits for  
                   980 mg/m3       Air Contaminants - 1910.1000

STEL           500 ppm            USA. OSHA - TABLE Z-1 Limits for  
                   1,225 mg/m3     Air Contaminants - 1910.1000

TWA            400 ppm            USA. Occupational Exposure Limits  
                   980 mg/m3       (OSHA) - Table Z-1 Limits for Air Contaminants  
 The value in mg/m3 is approximate.

TWA            400 ppm            USA. NIOSH Recommended  
                   980 mg/m3       Exposure Limits

STEL           500 ppm            USA. NIOSH Recommended  
                   1,225 mg/m3     Exposure Limits

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Clear / water white	<b>Odor:</b>	Strong solvent/ketone odor
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Moderate
<b>Spec Grav./Density:</b>	0.84	<b>Percent Volatile:</b>	100
<b>Boiling Point:</b>	133F (56C)	<b>Flash Point:</b>	0F (-18C)
<b>Evap. Rate:</b>	3.23 (butyl acetate =1)	<b>Vapor Density:</b>	>2.725 (air=1)
		<b>UFL/LFL:</b>	1.27%/12.8%

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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**Chemical Stability:**            Product is stable.

**Conditions to Avoid:**        Keep liquid and vapor away from heat, sparks, and flame.

**Materials to Avoid:**         Acids, Aldehydes, alkalis, Amines, Ammonia, Ethylene oxide, halogenated hydrocarbons, halogens, isocyanates, peroxides, Reducing agents, Strong oxidizing agents. Do not use with aluminum equipment at temperatures above 120F.

**Hazardous Decomposition:**   CO (Carbon Monoxide), CO2 (Carbon Dioxide), and other unidentified organic compounds may be formed during combustion.

**Hazardous Polymerization:**   Hazardous polymerization will not occur.

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**TOXICOLOGICAL INFORMATION****Toluene (108-88-3) [60-70%]**

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - &gt; 5,580 mg/kg

LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m<sup>3</sup>

LD50 Dermal - rabbit - 12,196 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Skin irritation - 24 h

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: rat Liver DNA damage

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Damage to fetus possible Suspected human reproductive toxicant

Reproductive toxicity - rat - Inhalation: Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Experiments have shown reproductive toxicity effects in male and female laboratory animals.

Developmental Toxicity - rat - Oral: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: XS5250000

Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.

Stomach - Irregularities - Based on Human Evidence

**Acetone (67-64-1) [30-40%]**

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 5,800 mg/kg

Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Tremor.

LC50 Inhalation - rat - 8 h - 50,100 mg/m<sup>3</sup>

LD50 Dermal - guinea pig - 7,426 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or

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confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: AL3150000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
Kidney - Irregularities - Based on Human Evidence

### **Isopropanol (67-63-0) [1.5-5%]**

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 5,045 mg/kg

Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Somnolence (general depressed activity).

LC50 Inhalation - rat - 8 h - 16000 ppm

LD50 Dermal - rabbit - 12,800 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation

Serious eye damage/eye irritation: Eyes - rabbit Result: Eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: NT8050000

Central nervous system depression, prolonged or repeated exposure can cause: Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects.

Kidney - Irregularities - Based on Human Evidence

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**ECOLOGICAL INFORMATION****Toluene (108-88-3) [60-70%]**

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 7.63 mg/l - 96 h.NOEC - *Pimephales promelas* (fathead minnow) - 5.44 mg/l - 7 dToxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 8.00 mg/l - 24 h.Immobilization EC50 - *Daphnia magna* (Water flea) - 6 mg/l - 48 hToxicity to algae EC50 - *Chlorella vulgaris* (Fresh water algae) - 245.00 mg/l - 24 h.EC50 - *Pseudokirchneriella subcapitata* (green algae) - 10.00 mg/l - 24 h

Persistence and degradability: Biodegradability Result: - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

**Acetone (67-64-1) [30-40%]**

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 4,740-6,330 mg/l - 96 h.Toxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 13,500.00 mg/l - 48 h.

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

**Isopropanol (67-63-0) [1.5-5%]**

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Pimephales promelas* (fathead minnow) - 9,640.00 mg/l - 96 h.Toxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 5,102.00 mg/l - 24 h.Immobilization EC50 - *Daphnia magna* (Water flea) - 6,851 mg/l - 24 hToxicity to algae EC50 - *Desmodesmus subspicatus* (green algae) - > 2,000.00 mg/l - 72 h.

EC50 - Algae - &gt; 1,000.00 mg/l - 24 h

Persistence and degradability: no data available



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Bioaccumulative potential: no data available  
 Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

<b>13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of waste in accordance with federal, state, and local regulations.

Contaminated packaging: Dispose of as unused product.

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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UN1263, Paint related material including paint thinning, drying, removing, or reducing compound, 3, PGII

<b>15</b>	<b>REGULATORY INFORMATION</b>
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Component (CAS#) [%] - CODES

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 RQ(1000LBS), Toluene (108-88-3) [60-70%] CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, PROP65, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

RQ(5000LBS), Acetone (67-64-1) [30-40%] CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

Isopropanol (67-63-0) [1.5-5%] MASS, NJHS, NRC, OSHAWAC, PA, SARA313, TSCA, TXAIR

Regulatory CODE Descriptions

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 RQ = Reportable Quantity  
 CERCLA = Superfund clean up substance  
 CSWHS = Clean water Act Hazardous substances  
 EPCRAWPC = EPCRA water Priority Chemicals  
 HAP = Hazardous Air Pollutants  
 MASS = MA Massachusetts Hazardous Substances List  
 NJHS = NJ Right-to-Know Hazardous Substances  
 OSHAWAC = OSHA workplace Air Contaminants  
 PA = PA Right-To-Know List of Hazardous Substances  
 PRIPOL = Clean water Act Priority Pollutants  
 PROP65 = CA Prop 65  
 SARA313 = SARA 313 Title III Toxic Chemicals  
 TOXICPOL = Clean water Act Toxic Pollutants  
 TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)  
 TSCA = Toxic Substances Control Act  
 TXAIR = TX Air Contaminants with Health Effects Screening Level  
 TXHWL = TX Hazardous Waste List  
 NRC = Nationally Recognized Carcinogens

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**OTHER INFORMATION**

**NOTICE :** This information is presented in good faith and believed to be accurate as of the effective date below. However, no warranty is express or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Coatings For Industry, Inc. assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material, such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.