



Material Safety Data Sheet

Revision Date: 26-Oct-2011

Revision Number: 4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name COROTILE QUICK DRY ENAMEL
Product Code 139-SERIES
Product Class SOLVENT THINNED PAINT
Color All

Manufacturer Complementary Coatings Corp.
 dba Insl-X
 101 Paragon Drive
 Montvale, NJ 07645
 Phone: (800)-225-5554
 www.insl-x.com

Emergency Telephone Number(s)
 CHEMTREC (US): 800-424-9300
 CHEMTREC (outside US): (703)-527-3887

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Chemical Name	CAS-No	Weight % (max)
t-Butyl acetate	540-88-5	30
Limestone	1317-65-3	30
Titanium dioxide	13463-67-7	25
Talc	14807-96-6	20
Xylene	1330-20-7	15
Solvent naphtha, petroleum, light aromatic	64742-95-6	10
Kaolin	1332-58-7	10
1,2,4-Trimethylbenzene	95-63-6	10
Ethyl benzene	100-41-4	5
Iron oxide	1309-37-1	5
Diatomaceous earth	61790-53-2	5
n-Butyl acetate	123-86-4	5
Silica, crystalline	14808-60-7	5
Pigment Orange 34	15793-73-4	5
Stoddard solvent	8052-41-3	5
Carbon black	1333-86-4	5
Propylene glycol monomethyl ether acetate	108-65-6	5
Monoazo pigment	3468-63-1	5
Silica, amorphous	7631-86-9	5
Cobalt bis(2-ethylhexanoate)	136-52-7	0.5

3. HAZARDS IDENTIFICATION

Emergency Overview

DANGER

Vapor harmful. Vapors may be irritating to eyes, nose, throat, and lungs. May cause skin irritation and/or dermatitis.
Flammable.

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded.
IMPORTANT: If modifiers are added to the paint to enhance performance, the mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

Appearance liquid

Odor solvent

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principal Routes of Exposure Eye contact, skin contact and inhalation.

Acute Effects

Eyes

Contact with eyes may cause irritation.

Skin

May cause skin irritation and/or dermatitis. May be absorbed through the skin in harmful amounts.

Inhalation

Irritating to respiratory system. Avoid breathing vapors or mists. High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects.

Ingestion

Harmful if swallowed. Ingestion may cause irritation to mucous membranes. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Chronic Effects

Avoid repeated exposure. Prolonged exposure may cause chronic effects. Intentional misuse by deliberately concentrating and inhaling solvents may be harmful or fatal. May cause kidney damage. May cause liver damage.

Contains: Crystalline Silica which has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

HMS **Health:** 2* **Flammability:** 3 **Reactivity:** 0 **PPE:** -

HMIS Legend

0 - Minimal Hazard

1 - Slight Hazard

2 - Moderate Hazard

3 - Serious Hazard

4 - Severe Hazard

* - Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

4. FIRST AID MEASURES

General Advice

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes, If skin irritation persists, call a physician.

Inhalation

Move to fresh air. If symptoms persist, call a physician.
If not breathing, give artificial respiration. Call a physician immediately.

Ingestion

Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

Notes To Physician

Treat symptomatically.

Protection Of First-Aiders

Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Protective Equipment And Precautions For Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific Hazards Arising From The Chemical

Flammable. Closed containers may rupture if exposed to fire or extreme heat. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

Sensitivity To Mechanical Impact

No

Sensitivity To Static Discharge	Yes
Flash Point Data	
Flash Point (°F)	80
Flash Point (°C)	27
Flash Point Method	PMCC
Flammability Limits In Air	
Lower Explosion Limit	Not available
Upper Explosion Limit	Not available

NFPA **Health: 2** **Flammability: 3** **Instability: 0** **Special: -**

NFPA Legend

- 0 - Not Hazardous
- 1 - Slightly
- 2 - Moderate
- 3 - High
- 4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.. Use personal protective equipment. Remove all sources of ignition.. Take precautionary measures against static discharges.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.
Methods For Clean-Up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.
Other Information	None known

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.
Storage	Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers. Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children.

DANGER - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Hazardous Components

Chemical Name	ACGIH	OSHA
t-Butyl acetate	200 ppm - TWA	200 ppm - TWA 950 mg/m ³ - TWA
Limestone	N/E	15 mg/m ³ - TWA total 5 mg/m ³ - TWA
Titanium dioxide	10 mg/m ³ - TWA	15 mg/m ³ - TWA total
Talc	2 mg/m ³ - TWA	20 mppcf - TWA
Xylene	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 435 mg/m ³ - TWA
Solvent naphtha, petroleum, light aromatic	N/E	N/E
Kaolin	2 mg/m ³ - TWA	15 mg/m ³ - TWA total 5 mg/m ³ - TWA
1,2,4-Trimethylbenzene	N/E	N/E
Ethyl benzene	100 ppm - TWA 125 ppm - STEL	100 ppm - TWA 435 mg/m ³ - TWA
Iron oxide	5 mg/m ³ - TWA	10 mg/m ³ - TWA
Diatomaceous earth	N/E	- (80)/(%) SiO ₂ mg/m ³ TWA 20 mppcf - TWA
n-Butyl acetate	150 ppm - TWA 200 ppm - STEL	150 ppm - TWA 710 mg/m ³ - TWA
Silica, crystalline	0.025 mg/m ³ - TWA	respirable - (10)/(%) SiO ₂ + 2 mg/m ³ TWA respirable - (250)/(%) SiO ₂ + 5 mppcf TWA total dust - (30)/(%) SiO ₂ + 2 mg/m ³ TWA
Pigment Orange 34	N/E	N/E
Stoddard solvent	100 ppm - TWA	2900 mg/m ³ - TWA 500 ppm - TWA
Carbon black	3.5 mg/m ³ - TWA	3.5 mg/m ³ - TWA
Propylene glycol monomethyl ether acetate	N/E	N/E
Monoazo pigment	N/E	N/E
Silica, amorphous	N/E	- (80)/(%) SiO ₂ mg/m ³ TWA 20 mppcf - TWA
Cobalt bis(2-ethylhexanoate)	N/E	N/E

Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields. If splashes are likely to occur, wear:.. Tightly fitting safety goggles. Face-shield.

Skin Protection

Long sleeved clothing. Chemical resistant apron. Protective gloves.

Respiratory Protection

In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Odor	solvent
Density (lbs/gal)	7.9 - 11.7
Specific Gravity	0.8 - 1.4
pH	Not available
Viscosity (centistokes)	Not available
Evaporation Rate	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Wt. % Solids	35 - 70
Vol. % Solids	30 - 50
Wt. % Volatiles	30 - 65
Vol. % Volatiles	50 - 70
VOC Regulatory Limit (g/L)	<580
Boiling Point (°F)	277
Boiling Point (°C)	136
Freezing Point (°F)	Not available
Freezing Point (°C)	Not available
Flash Point (°F)	80
Flash Point (°C)	27
Flash Point Method	PMCC
Upper Explosion Limit	Not available
Lower Explosion Limit	Not available

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions. Hazardous polymerisation does not occur.

Conditions To Avoid

Keep away from open flames, hot surfaces, static electricity and sources of ignition.

Incompatible Materials

Incompatible with strong acids and bases and strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors.

Possibility Of Hazardous Reactions

None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product

Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Component

Limestone

LD50 Oral: 6,450 mg/kg (Rat) vendor data
Sensitization: No sensitizing effects known.

Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)
LD50 Dermal: > 10000 mg/m³ (Rabbit)
LC50 Inhalation (Dust): > 6.82 mg/L (Rat, 4 hr.)

Xylene

LD50 Oral: 4300 mg/kg (Rat)
LD50 Dermal: > 1700 mg/kg (Rabbit)
LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.)
Sensitization: No sensitizing effects known.

Solvent naphtha, petroleum, light aromatic

LD50 Oral: 8400 mg/kg (Rat)

Kaolin

LD50 Oral: > 5000 mg/kg (Rat)

1,2,4-Trimethylbenzene

LD50 Oral: 5000 mg/kg (Rat)
LC50 Inhalation (Vapor): 18000 mg/m³ (Rat, 4 hr.)

Ethyl benzene

LD50 Oral: 3500 mg/kg (Rat)
LD50 Dermal: > 5000 mg/kg (Rabbit)
LC50 Inhalation (Vapor): 55000 mg/m³ (Rat, 2 hr.)
Sensitization: No sensitizing effects known.

Iron oxide

LD50 Oral: > 5000 mg/kg (Rat) vendor data

n-Butyl acetate

LD50 Oral: 10768 mg/kg (Rat)
LD50 Dermal: > 17600 mg/kg (Rabbit)
LC50 Inhalation (Vapor): 390 ppm (Rat, 4 hr.)
Sensitization: non-sensitizing (guinea pig)

Silica, crystalline

LD50 Oral: 500 mg/kg (Rat) vendor data

Stoddard solvent

LD50 Oral: > 5,000 mg/kg (Rat)

LD50 Dermal: > 3160 mg/kg (Rabbit)

LC50 Inhalation (Vapor): > 6.1 mg/L (Rat)

Carbon black

LD50 Oral: > 15400 mg/kg (Rat)

LD50 Dermal: > 3000 mg/kg (Rabbit)

Propylene glycol monomethyl ether acetate

LD50 Oral: 8532 mg/kg (Rat)

LD50 Dermal: > 5000 mg/kg (Rabbit)

LC50 Inhalation (Vapor): > 4345 ppm

Silica, amorphous

LD50 Oral: > 5000 mg/kg (Rat)

LD50 Dermal: 2,000 mg/kg (Rabbit)

LC50 Inhalation (Dust): > 2 mg/L

Chronic Toxicity**Carcinogenicity**

The information below indicates whether each agency has listed any ingredient as a carcinogen:

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
Titanium dioxide		2B - Possible Human Carcinogen		Listed
Ethyl benzene	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	2B - Possible Human Carcinogen		Listed
Silica, crystalline	A2 - Suspected Human Carcinogen	1 - Human Carcinogen	Known Human Carcinogen	Listed
Pigment Orange 34		1 - Human Carcinogen	Known Human Carcinogen	
Carbon black		2B - Possible Human Carcinogen		Listed
Cobalt bis(2-ethylhexanoate)		2B - Possible Human Carcinogen		

- Crystalline Silica has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.
- Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."
- Cobalt and cobalt compounds are listed as possible human carcinogens by IARC (2B). However, there is inadequate evidence of the carcinogenicity of cobalt and cobalt compounds in humans.

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects**Product****Acute Toxicity to Fish**

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Component**Acute Toxicity to Fish**

No information available

Titanium dioxide

LC50: >1000 mg/L (Fathead Minnow - 96 hr.)

Xylene

LC50: 13.5 mg/L (Rainbow Trout - 96 hr.)

Ethyl benzene

LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

n-Butyl acetate

LC50: 18 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

No information available

Ethyl benzene

EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

12. ECOLOGICAL INFORMATION

n-Butyl acetate

EC50: 72.8 mg/L (Daphnia magna - 48 hr.)

Acute Toxicity to Aquatic Plants

No information available

Ethyl benzene

EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

n-Butyl acetate

EC50: 674.7 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with federal, state, provincial, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Paint
Hazard Class	3
UN-No	UN1263
Packing Group	III

ICAO / IATA

Contact the preparer for further information.

IMDG / IMO

Contact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

United States TSCA

Yes - All components are listed or exempt.

Canada DSL

Yes - All components are listed or exempt.

Federal Regulations

SARA 311/312 hazardous categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No

Reactive Hazard

No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
Xylene	1330-20-7	15
1,2,4-Trimethylbenzene	95-63-6	10
Ethyl benzene	100-41-4	5

This product may contain trace amounts of (other) SARA reportable chemicals. Contact the preparer for further information.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
Xylene	1330-20-7	15
Ethyl benzene	100-41-4	5
Cobalt bis(2-ethylhexanoate)	136-52-7	0.5

This product may contain trace amounts of (other) HAPs chemicals. Contact the preparer for further information.

State Regulations**California Proposition 65**

This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.

State Right-to-Know

<u>Chemical Name</u>	<u>Massachusetts</u>	<u>New Jersey</u>	<u>Pennsylvania</u>	<u>Louisiana</u>	<u>Rhode Island</u>
t-Butyl acetate	X	X	X		X
Limestone	X	X	X		X
Titanium dioxide	X	X	X		X
Talc	X	X	X		X
Xylene	X	X	X		X
Kaolin	X	X	X		X
1,2,4-Trimethylbenzene	X	X	X		
Ethyl benzene	X	X	X		X
Iron oxide	X	X	X		X
Diatomaceous earth		X			X
n-Butyl acetate	X	X	X		X
Silica, crystalline	X	X	X		X
Stoddard solvent	X	X	X		X
Carbon black	X	X	X		X
Silica, amorphous	X	X	X		
Cobalt bis(2-ethylhexanoate)		X	X		

Legend

X - Listed

16. OTHER INFORMATION

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By Product Stewardship Department
Complementary Coatings Corp.
dba Insl-X
101 Paragon Drive
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Phone: 1-800-225-5554

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Disclaimer

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End of MSDS