

1. Identification of the substance/mixture and of the company/undertaking

Supplier: Axalta Coating Systems Canada Company
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Ajax, ON L1S 1R6

Manufacturer: Axalta Coating Systems, LLC
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Telephone: Product information: (800) 668-6945
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Transportation emergency: (613) 996-6666 (CANUTEC)

Product Identifier: **Corlar® Activators**

Product Use: Coating for professional use
Hardener for professional use

Hazardous Materials Information: See Section 16.

Products covered in this document include: 613P, FG-040, FG-090, FG-2HTA, VF-026, VF-525, VG-026

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2. Composition/information on ingredients

INGREDIENTS	CAS #	VAPOUR PRESSURE	EXPOSURE LIMITS
1,2,4-Trimethylbenzene	95-63-6	7.0@44.4 °C	A 25.0 ppm, O 25.0 ppm
1,3,5-Trimethylbenzene	108-67-8	None	A 25.0 ppm, O None
2,4,6-Tri((dimethylamino)methyl) phenol	90-72-2	0.0@21.0 °C	A None, O None
Acetone	67-64-1	247.0@68.0 °F	A 750.0 ppm 15 min STEL, A 500.0 ppm, O 1000.0 ppm, D 500.0 ppm 8 & 12 hour TWA
Acrylic polymer-A	Not Avail	None	A None, O None
Acrylic polymer-B	104032-39-5	None	A None, O None
Amidoamine	64754-99-0	None	A None, O None
Amorphous silica	7631-86-9	None	A 3.0 mg/m ³ Respirable Dust, O 20.0 mppcf, D 3.0 mg/m ³ , D 6.0 mg/m ³
Amorphous silica	63231-67-4	None	D 2.0 mg/m ³ Respirable Dust, D 2.0 mg/kg 12 hr TWA, A None, O None
- silica base			
Amorphous silica -fumed	68611-44-9	None	A 2.0 mg/m ³ Respirable Dust, D 1.0 mg/m ³ Respirable Dust, O None
Aromatic hydrocarbon-A	64742-94-5	10.0	D 100.0 ppm 8 & 12 hour TWA, A None, O None
Aromatic hydrocarbon-B	64742-95-6	10.0@25.0 °C	D 50.0 ppm 8 & 12 hour TWA, A None, O None
Barium sulfate	7727-43-7	None	O 15.0 mg/m ³ Total Dust, O 5.0 mg/m ³ Respirable Dust, D 10.0 mg/m ³ 8 & 12 hour TWA Total Dust, D 5.0 mg/m ³ 8 & 12 hour TWA Respirable Dust, A None
Benzyl alcohol	100-51-6	0.1@30.0 °C	D 10.0 ppm 8 & 12 hour TWA, A None, O None
Epoxy resin	25068-38-6	1.0@180.0 °C	A None, O None
n-Butyl acetate	123-86-4	15.0	A 200.0 ppm 15 min STEL, A 150.0 ppm, O 150.0 ppm
Calcium phosphosilicate	Not Avail	None	A None, O None
Cumene	98-82-8	3.7	A 50.0 ppm, O 50.0 ppm Skin
Curing agent	Not Avail	None	A None, O None
Dipropylene glycol methyl Ether	34590-94-8	0.4@25.0 °C	A None, O None
Epoxy hardener	1477-55-0	None	A 0.1 mg/m ³ TWA Skin, O 0.1 mg/m ³ TWA Skin
Ethyl acetate	141-78-6	100.0	A 400.0 ppm, O 400.0 ppm
Ethylbenzene	100-41-4	7.0	A 20.0 ppm, O 100.0 ppm, D 25.0 ppm 8 & 12 hour TWA
Glycidyl ether of alkyl phenol		171263-25-5	None A None, O None
Hydrous magnesium silicate	14807-96-6	None	A 2.0 mg/m ³ Respirable Dust, D 0.5 mg/m ³ 8 & 12 hour TWA Respirable Dust, O None

INGREDIENTS	CAS #	VAPOUR PRESSURE	EXPOSURE LIMITS
Kaolin	1332-58-7	None	A 2.0 mg/m ³ Respirable Dust, O 15.0 mg/m ³ TWA Total Dust, O 5.0 mg/m ³ TWA Respirable Dust
Methyl amyl ketone	110-43-0	3.4	A 50.0 ppm, O 100.0 ppm
Methyl ethyl ketone	78-93-3	71.2	A 300.0 ppm 15 min STEL, A 200.0 ppm, O 200.0 ppm, D 300.0 ppm 15 min TWA, D 200.0 ppm 8 & 12 hour TWA
Mica	12001-26-2	None	A 3.0 mg/m ³ Respirable Dust, O 20.0 mppcf, O 3.0 mg/m ³ Respirable Dust
Modified aliphatic amines	Not Avail	7.5@21.0 °F	A None, O None
n-Butyl alcohol	71-36-3	6.0@68.0 °F	A 20.0 ppm, O 100.0 ppm, D 50.0 ppm 15 min TWA, D 25.0 ppm 8 & 12 hour TWA
Neodecanoic acid,2,3-epoxypropyl ester	26761-45-5	<0.0	A None, O None
Organophilic clay	Not Avail	None	A 10.0 mg/m ³ PNOC, O 15.0 mg/m ³ TWA
Phenolic polymer	9003-35-4	None	A None, O None
Quartz-crystalline silica	14808-60-7	None	A 25.0 µg/m ³ Respirable Dust, O 0.3 mg/m ³ Total Dust, O 0.1 mg/m ³ Respirable Dust, D 20.0 µg/m ³ Respirable Dust, D 10.0 µg/m ³ 12 hour TWA Respirable Dust
Sodium aluminum silicate	68476-25-5	None	A None, O None
Tetraethylenepentamine	112-57-2	None	A None, O None
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	68953-36-6	<20.6@21.0 °C	A None, O None
Toluene	108-88-3	22.0	A 20.0 ppm, O 300.0 ppm CEIL, O 500.0 ppm 10 min TWA, O 200.0 ppm, D 50.0 ppm 8 & 12 hour TWA Skin
Xylene	1330-20-7	8.0@25.0 °C	A 150.0 ppm 15 min STEL, A 100.0 ppm, O 100.0 ppm, D 100.0 ppm 8 & 12 hour TWA

*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapour pressure @ 20° C unless otherwise noted.

D=DuPont, Results obtained from E. I. du Pont de Nemours and Company.

3. Hazards identification

Potential Health Effects:

Inhalation:

May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapours or spray mist of this product.

Ingestion:

May result in gastrointestinal distress.

Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Other Potential Health Effects in addition to those listed above:

Acetone

The following medical conditions may be aggravated by exposure: lung disease, eye disease, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

Amidoamine

Can be absorbed through the skin in harmful amounts. Ingestion may cause any of the following: burns to mouth and stomach, gastrointestinal irritation. Skin contact may cause: severe irritation, burns. Eye contact may cause: severe irritation, burns, permanent eye injury. Similar chemicals are suspected mutagens.

Aromatic hydrocarbon-A

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

Aromatic hydrocarbon-B

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

Epoxy resin

The following medical conditions may be aggravated by exposure: skin disorders. Vapor may be irritating at elevated temperatures. Repeated or prolonged skin contact may cause: allergic contact dermatitis.

n-Butyl acetate

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

Calcium phosphosilicate

Ingestion may cause any of the following: nausea, Vomiting, gastrointestinal irritation, diarrhea. Repeated or prolonged eye contact may cause: corneal injury. The following medical conditions may be aggravated by overexposure: lung disease, pulmonary condition.

Cumene

WARNING: This chemical is known to the State of California to cause cancer.

Epoxy hardener

Ingestion may be: moderately toxic. Skin or eye contact may cause any of the following: severe irritation.

Ethyl acetate

Increased susceptibility to the effects of this material may be observed in people with pre-existing disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver.

Ethylbenzene

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with pre-existing disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. WARNING: This chemical is known to the State of California to cause cancer.

Kaolin

The following medical conditions may be aggravated by exposure: asthma, Dermatitis. Repeated or prolonged inhalation may cause any of the following: lung injury.

Methyl ethyl ketone

Material is irritating to mucous membranes and upper respiratory tract. Increased susceptibility to the effects of this material may be observed in people with pre-existing disease of any of the following: central nervous system, eyes, respiratory system, skin. Prolonged or repeated overexposure may cause any of the following: Conjunctivitis, Dermatitis. High concentrations have caused embryotoxic effects in laboratory animals. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

Mica

Repeated or prolonged inhalation may cause any of the following: lung irritation. Long-term respiratory exposure exceeding TLV may damage the lungs, leading to bronchitis and impairment of lung capacity.

n-Butyl alcohol

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

Phenolic polymer

Repeated or prolonged inhalation may cause any of the following: respiratory tract irritation.

Quartz-crystalline silica

Is an IARC, NTP or OSHA carcinogen. Repeated overexposure to crystalline silica may lead to typical x-ray changes and chronic lung disease. Inhalation of high dust concentrations may cause: breathing difficulties, lung injury. WARNING: This chemical is known to the State of California to cause cancer.

Toluene

Increased susceptibility to the effects of this material may be observed in people with pre-existing disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heartbeats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

Xylene

Increased susceptibility to the effects of this material may be observed in people with pre-existing disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heartbeats. Canada classifies Xylene as a developmental toxin as high exposures to Xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause: irritation, dryness, cracking of the skin.

4. First aid measures

First Aid Procedures:

Inhalation:

If affected by inhalation of vapour or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

5. Firefighting measures

Flash Point (Closed Cup):

See Section 16 for exact values.

Flammable Limits: LFL 0.9 % UFL 12.8 %

Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

6. Accidental release measures

Procedures for cleaning up spills or leaks:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapour. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapour cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (TergitolTMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO₂ to vent. After 48 hours, material may be sealed and disposed of properly.

Ecological information:

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

7. Handling and storage

Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 38 – 93 °C or 100 – 200 °F), keep away from heat, sparks and flame. If flammable (flashpoint less than 38 °C or 100 °F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than – 8 °C or 20 °F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapours may spread long distances. Prevent buildup of vapours. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 49 °C or 120 °F. If product is water based, do not freeze.

Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves. Combustible dust clouds may be created where operations produce fine material (dust). Avoid formation of significant deposits of material as they may become airborne and form combustible dust clouds. Handling and processing operations should be conducted in accordance with best practices (e.g.NFPA-654).

8. Exposure controls/personal protection

Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Respiratory protection:

Do not breathe vapours or mists. If this product contains or is used with an isocyanate (such as an activator/hardener), wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapours and spray mist are exhausted. If product does not contain nor is used with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapour cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if contains or is mixed with isocyanate activators/hardeners.

Protective equipment:

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Skin and body protection:

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

9. Physical and chemical properties

Evaporation rate	Slower than Ether
Vapour pressure of principal solvent	3.4 hPa
Solubility of Solvent in Water	NIL
Vapour density	Heavier than air
Approx. Boiling Range (°C)	66 – 152 °C
Approx. Freezing Range (°C)	-95 °C
Density (g/l)	1,057 - 1,428
Specific Gravity	1.06 - 1.43
Percent Volatile by Volume	9.44 - 54.22
Percent Volatile by Weight	6.01 - 41.95
Percent Solids by Volume	45.78 - 90.56
Percent Solids by Weight	58.05 - 93.29
Appearance	liquid
Odour:	characteristic of the Product

10. Stability and reactivity

Stability:

Stable

Incompatibility (materials to avoid):

None reasonably foreseeable

Hazardous decomposition products:

CO, CO₂, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

Hazardous Polymerization:

Will not occur.

Sensitivity to Static Discharge:

For flammable materials (flashpoint less than 38 °C or 100 °F) and combustibles (flashpoint between 38- 93 °C or 100-200 °F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

Sensitivity to Mechanical Impact:

None known.

11. Toxicological information

Toxicity Test Type	Value	Time	Species	Source
1,2,4-trimethylbenzene				
Oral LD50	5000 mg/kg		rat	RTECS
Inhalation LC50	18000 mg/l	4 h	rat	RTECS
1,3,5-Trimethylbenzene				
Oral LD50	24,000 mg/kg		rat	RTECS
Inhalation LC50	24 mg/l	4 h	rat	RTECS
2,4,6-Tri((dimethylamino)methyl) phenol				
Oral LD50	= 1,200 mg/kg		rat	RTECS
Dermal LD50	= 1,280 mg/kg		rat	RTECS
Acetone				
Oral LD50	5,800 mg/kg		rat	RTECS
Dermal LD50	20 g/kg		rabbit	Supplier MSDS
Inhalation LC50	50.1 g/m3	8 h	rat	RTECS
Amidoamine				
Oral LD50	8 g/kg		rat	Supplier MSDS
Dermal LD50	> 7 g/kg		rabbit	Supplier MSDS
Amorphous Silica				
Oral LD50	> 5,000 mg/kg		rat	Supplier MSDS
Dermal LD50	> 5,000 mg/kg		rabbit	Supplier MSDS
Inhalation LC50	> 0.139 mg/l		rat	Supplier MSDS
Amorphous silica -fumed				
Oral LD50	> 5,000 mg/kg		rat	Supplier MSDS
Inhalation LC50	> 0.48 mg/l	4 h	rat	Supplier MSDS
Aromatic hydrocarbon-A				
Oral LD50	13 ml/kg		rat	Supplier MSDS
Dermal LD50	> 2,000 mg/kg		rabbit	Supplier MSDS
Inhalation LC50	3,800 mg/m3	4 h	rat	Supplier MSDS
Inhalation LD50	> 580 ppm	4 h	rat	Supplier MSDS
Aromatic hydrocarbon-B				
Oral LD50	> 5,000 mg/kg		rat	CCOHS
Dermal LD50	> 3,160 mg/kg		rat	CCOHS
Inhalation LD50	> 3,670 ppm	4 h	rat	Supplier MSDS
Barium Sulphate				
Oral LD50	15,000 mg/kg		rat	Supplier MSDS
Benzyl alcohol				
Oral LD50	1,230 mg/kg		rat	Supplier MSDS
Epoxy resin				
Oral LD50	> 5,000 mg/kg		rat	Supplier MSDS
Dermal LD50	> 20,000 mg/kg		rabbit	Supplier MSDS
n-Butyl acetate				
Oral LD50	> 5,000 mg/kg		rat	Supplier MSDS
Dermal LD50	> 5,000 mg/kg		rabbit	Supplier MSDS
Inhalation LC50	> 6,335 ppm	4 h	rat	Supplier MSDS
Cumene				
Oral LD50	1,400 mg/kg		rat	Supplier MSDS
Dermal LD50	10,578 mg/kg		rabbit	Supplier MSDS
Inhalation LC50	39 mg/l	4 h	rat	Supplier MSDS
Dipropylene glycol methyl ether				
Oral LD50	5,660 mg/kg		rat	SAX DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, FOURTH EDITION
				Supplier MSDS
Dermal LD50	= 9,500 mg/kg		rabbit	Supplier MSDS
Inhalation LC50	> 500 ppm		rat	Supplier MSDS
Ethyl Acetate				
Oral LD50	5,600 mg/kg		rat	Supplier MSDS

Dermal LD50	> 20 mg/kg		rabbit	Supplier MSDS
Inhalation LC50	29.4 mg/l	4 h	rat	Supplier MSDS
Ethylbenzene				
Oral LD50	3,500 mg/kg		rat	RTECS
Dermal LD50	17.8 g/kg		rabbit	RTECS
Inhalation LC50	4,000 ppm	4 h	rat	Patty's
Glycidyl ether of alkyl phenol				
Oral LD50	5 g/kg		rat	Supplier MSDS
Dermal LD50	> 2 g/kg		rat	Supplier MSDS
Kaolin				
Oral LD50	> 5,000 mg/kg		rat	Supplier MSDS
Oral TDLo	590 g/kg		rat	SAX DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, FOURTH EDITION
Methyl amyl ketone				
Oral LD50	1,600 mg/kg		rat	Supplier MSDS
Oral LD50	= 730 mg/kg		mouse	Supplier MSDS
Dermal LD50	> 2,000 mg/kg		rabbit	Supplier MSDS
Inhalation LC50	2,000 ppm	4 h	rat	Supplier MSDS
Methyl ethyl ketone				
Oral LD50	> 2,193 g/kg		rat	Supplier MSDS
Dermal LD50	> 5 g/kg		rabbit	Supplier MSDS
Inhalation LC50	> 5,000 ppm	6 h	rat	Supplier MSDS
Mica				
Oral LD50	15,000 mg/kg		rat	Supplier MSDS
n-Butyl alcohol				
Oral LD50	790 mg/kg		rat	RTECS
Dermal LD50	3,400 mg/kg		rabbit	RTECS
Inhalation LC50	> 8,000 ppm	4 h	rat	RTECS
Neodecanoic acid,2,3-epoxypropyl ester				
Oral LD50	> 10 mg/kg		rat	MISCELLANEOUS
Dermal LD50	> 4 mg/kg		rat	MISCELLANEOUS
Inhalation LC50	> 0.25 mg/l	4 h	rat	MISCELLANEOUS
Tetraethylenepentamine				
Oral LD50	2,100 mg/kg		rat	MISCELLANEOUS
Dermal LD50	660 mg/kg		rabbit	MISCELLANEOUS
Toluene				
Oral LD50	3,000 mg/kg		rat	Supplier MSDS
Dermal LD50	4,000 mg/kg		rabbit	Supplier MSDS
Inhalation LC50	5,300 ppm		mouse	Supplier MSDS
Xylene				
Oral LD50	4,300 mg/kg		rat	RTECS
Dermal LD50	> 1,700 mg/kg		rabbit	RTECS
Inhalation LC50	5,000 ppm	4 h	rat	RTECS

Key:

RTECS - Registry of Toxic Effects of Chemical Substances

CCOHS - Canadian Center for Occupational Health and Safety

Patty's - Patty's Industrial Hygiene and Toxicology, 3rd Edition

12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute toxicity aquatic invertebrates

CAS-No.	Chemical Name	Species	Exposure Time	Value	Type	Method
95-63-6	1,2,4-trimethylbenzene	Daphnia	48 h	6 mg/l	LC50	
108-67-8	1,3,5-Trimethylbenzene	Daphnia	48 h	6 mg/l	EC50	
67-64-1	Acetone	Daphnia	2 days	10 mg/l		
68611-44-9	Amorphous silica -fumed	Daphnia	24 h	10,000 mg/l	EC50	
64742-94-5	Aromatic hydrocarbon-A	Daphnia	48 h	1 mg/l	EC50	
64742-95-6	Aromatic hydrocarbon-B	Daphnia	24 h	170 mg/l	EC50	
25068-38-6	Epoxy resin	Daphnia	48 h	1.4 mg/l	EC50	
123-86-4	n-Butyl acetate	Ceriodaphnia dubia	2 days	72.8 mg/l	EC50	
98-82-8	Cumene	Daphnia	24 h	1.4 mg/l	EC50	
100-41-4	Ethylbenzene	Daphnia	48 h	1.8 mg/l	EC50	
110-43-0	Methyl amyl ketone	Daphnia	2 days	90 mg/l	EC50	
78-93-3	Methyl ethyl ketone	Daphnia	48 h	5,091 mg/l	EC50	

CAS-No.	Chemical Name	Species	Exposure Time	Value	Type	Method
26761-45-5	Neodecanoic acid,2,3-epoxypropyl ester	Daphnia	48 h	5 ml/g	EC50	
112-57-2	Tetraethylenepentamine	Daphnia	48 h	24 mg/l	EC50	
108-88-3	Toluene	Water flea	1 day	100 ppm		
1330-20-7	Xylene	Water flea	1 days	10 mg/l	EC50	
1330-20-7	Xylene	Daphnia	1 days	10 mg/l	EC50	

Acute and extended toxicity of fishes

CAS-No.	Chemical Name	Species	Exposure Time	Value	Type	Method
95-63-6	1,2,4-trimethylbenzene	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	96 h	9,22 mg/l	EC50	
108-67-8	1,3,5-Trimethylbenzene	<i>Carassius auratus</i> (Goldfish)	96 h	12.5 mg/l	LC50	
67-64-1	Acetone	<i>Carassius auratus</i> (Goldfish)	1 days	5000 mg/l		
67-64-1	Acetone	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	4 days	5540 mg/l		
67-64-1	Acetone	<i>Lepomis macrochirus</i> (Bluegill sunfish)	4 days	8300 mg/l		
7631-86-9	Amorphous Silica	<i>Pimephales promelas</i> (Fathead Minnow)	4 days	5000 mg/l		
68611-44-9	Amorphous silica -fumed	<i>Cyprinodon variegatus</i> (Sheepshead Minnow)	96 h	10,000 mg/l	LC50	
64742-94-5	Aromatic Hydrocarbon-A	<i>Pimephales promelas</i> (Fathead Minnow)	96 h	45 mg/l	LC50	
64742-95-6	Aromatic Hydrocarbon-B	<i>Danio rerio</i> (Zebra Fish)	96 h	10 mg/l	LC50	
25068-38-6	Epoxy resin	<i>Danio rerio</i> (Zebra Fish)	4 days	2 mg/l		
25068-38-6	Epoxy resin	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	4 days	2 mg/l		
25068-38-6	Epoxy resin	<i>Pimephales promelas</i> (Fathead Minnow)	96 h	3.1 mg/l	LC50	
123-86-4	n-Butyl Acetate	<i>Pimephales promelas</i> (Fathead Minnow)	4 days	18 mg/l	LC50	
123-86-4	n-Butyl Acetate	<i>Lepomis macrochirus</i> (Bluegill sunfish)	4 days	100 mg/l		
98-82-8	Cumene	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	96 h	2,7 mg/l	LC50	
141-78-6	Ethyl Acetate	<i>Pimephales promelas</i> (Fathead Minnow)	4 days	230 mg/l		
141-78-6	Ethyl Acetate	<i>Leuciscus idus</i> (Golden Orfe)	2 days	270 mg/l		
141-78-6	Ethyl Acetate	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	4 days	425 mg/l		
100-41-4	Ethylbenzene	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	96 h	4.2 mg/l	LC50	
110-43-0	Methyl Amyl Ketone	<i>Pimephales promelas</i> (Fathead Minnow)	4 days	131 mg/l	LC50	
78-93-3	Methyl Ethyl Ketone	<i>Pimephales promelas</i> (Fathead Minnow)	0	3220 mg/l	LC50	
71-36-3	n-Butyl alcohol	<i>Carassius auratus</i> (Goldfish)	1 day	1,000 mg/kg		
71-36-3	n-Butyl alcohol	<i>Leuciscus idus</i> (Golden Orfe)	2 days	1,770 mg/kg		
26761-45-5	Neodecanoic acid,2,3-epoxypropyl ester	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	96 h	5 mg/l	LC50	
14808-60-7	Quartz-crystalline silica	<i>Cyprinus carpio</i> (Carp)	72 h	10 g/l	LC50	
108-88-3	Toluene	<i>Pimephales promelas</i> (Fathead Minnow)	4 days	32 mg/l		
108-88-3	Toluene	<i>Lepomis macrochirus</i> (Bluegill sunfish)	4 days	60 ppm		
108-88-3	Toluene	<i>Carassius auratus</i> (Goldfish)	4 days	60 ppm		

CAS-No.	Chemical Name	Species	Exposure Time	Value	Type	Method
1330-20-7	Xylene	<i>Pimephales promelas</i> (Fathead Minnow)	4 days	21 mg/l	EC50	
1330-20-7	Xylene	<i>Lepomis macrochirus</i> (Bluegill sunfish)	4 days	22 mg/l	EC50	
1330-20-7	Xylene	<i>Carassius auratus</i> (Poisson rouge)	4 days	24 mg/l	EC50	

Toxicity with aquatic plants

CAS-No.	Chemical Name	Species	Exposure Time	Value	Type	Method
7631-86-9	Amorphous silica	Daphnia	2 days	5,000 mg/l		
68611-44-9	Amorphous silica-fumed	<i>Desmodesmus</i> <i>subspicatus</i> (green algae)	72 h	10,000 mg/l	EC50	
64742-95-6	Aromatic hydrocarbon-B	Algae	72 h	10 mg/l	EC50	
98-82-8	Cumene	green algae (type not specified)	72 h	2.6 mg/l	IC50	
141-78-6	Ethyl acetate	Daphnia	2 days	230 mg/l		
100-41-4	Ethylbenzene	green algae (type not specified)	72 h	4.6 mg/l	EC50	
71-36-3	n-Butyl alcohol	Daphnia	1 day	1,855 mg/kg		

Mobility

No information available.

13. Disposal considerations**Provincial Waste Classification:**

Check appropriate provincial and local waste disposal regulations for proper classifications.

Waste Disposal Method:

Do not allow material to contaminate ground water systems. Incinerate or otherwise dispose of waste material in accordance with Federal, State, Provincial, and local requirements. Do not incinerate in closed containers. Send to a licensed waste management company.

14. Transport information**FG-2HTA, VF-026, VF-525, VG-026**

- TDG Shipping Name: PAINT RELATED MATERIAL
- Hazard class: 3
- UN number: 1263
- Packing group: II

FG-040, FG-090

- TDG Shipping Name: PAINT RELATED MATERIAL
- Hazard class: 3
- UN number: 1263
- Packing group: III

613P

- TDG Shipping Name: PAINT
- Hazard class: 3
- UN number: 1263
- Packing group: II

15. Regulatory information

This product has been classified according to the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

TSCA Status:

Contact product information number for regulatory status of individual products.

CEPA Status:

Contact product information number for regulatory status of individual products.

OCI:

Contact product information number for regulatory status of individual products.

WHMIS Classification:

613P

- Class B Division 2
- Class D Division 2 Subdivision A 53
- Class D Division 2 Subdivision A 54
- Class D Division 2 Subdivision B 60

WHMIS symbols



VF-026, VG-026

- Class B Division 2
- Class D Division 2 Subdivision A 53
- Class D Division 2 Subdivision A 54
- Class D Division 2 Subdivision B 60
- Class D Division 2 Subdivision B 61
- Class E

WHMIS symbols



FG-2HTA

- Class B Division 2
- Class D Division 2 Subdivision A 53
- Class D Division 2 Subdivision B 60
- Class D Division 2 Subdivision B 61
- Class E

WHMIS symbols



VF-525

- Class B Division 2
- Class D Division 2 Subdivision B 60
- Class D Division 2 Subdivision B 61

WHMIS symbols



FG-090

- Class B Division 3
- Class D Division 2 Subdivision A 53
- Class D Division 2 Subdivision A 54
- Class D Division 2 Subdivision B 60
- Class D Division 2 Subdivision B 61
- Class E

WHMIS symbols



FG-040

- Class B Division 3
- Class D Division 2 Subdivision A 53
- Class D Division 2 Subdivision B 60
- Class D Division 2 Subdivision B 61
- Class E

WHMIS symbols



16. Other information

613P™ Acetone (10 - 30%), Acrylic polymer-B (30 - 60%), Amorphous silica (10 - 30%), Amorphous silica - silica base (3 - 7%), n-Butyl acetate (1 - 5%), Ethylbenzene (0.1 - 1.0%), Methyl amyl ketone (10 - 30%), Toluene (1 - 5%), Xylene (0.1 - 1.0%)

DENSITY: 1,057.00 WT PCT SOLIDS: 58.05 VOL PCT SOLIDS: 45.78 SOLVENT DENSITY: 818.75 VOC LE: 364.7

VOC AP: 297.2 FLASH POINT: -7 °C to below 23 °C H: 2 F: 3 R: 0 OSHA STORAGE: IB PHOTOCHEMICALLY REACTIVE: NO

FG-040™ 1,2,4-Trimethylbenzene (5 - 10%), 1,3,5-Trimethylbenzene (1 - 5%), 2,4,6-Tri((dimethylamino)methyl) phenol (1 - 5%), Aromatic hydrocarbon-B (7 - 13%), Barium sulfate (10 - 30%), Cumene (0.1 - 1.0%), Curing agent (10 - 30%), Hydrous magnesium silicate (10 - 30%), Kaolin(5 - 10%), n-Butyl alcohol (1 - 5%), Xylene (0.1 - 1.0%)

DENSITY: 1,428.00 WT PCT SOLIDS: 73.61 VOL PCT SOLIDS: 57.50 SOLVENT DENSITY: 860.69 VOC LE: 376.2

VOC AP: 375.8 FLASH POINT: 38 °C to below 60 °C H: 2 F: 2 R: 0 OSHA STORAGE: II PHOTOCHEMICALLY REACTIVE: YES

FG-090™ 2,4,6-Tri((dimethylamino)methyl) phenol (1 - 5%), Benzyl alcohol (3 - 7%), Epoxy hardener (1 - 5%), Ethylbenzene (0.1 - 1.0%), Modified aliphatic amines(1 - 5%), Organophilic clay (1 - 5%), Quartz (SiO₂)(3 - 7%), Sodium aluminum silicate (30 - 60%), Tetraethylenepentamine (3 - 7%), Fatty acids, tall-oil, reaction products with tetraethylenepentamine (15 - 40%), Xylene (0.1 - 1.0%)

DENSITY: 1,368.00 WT PCT SOLIDS: 93.29 VOL PCT SOLIDS: 90.56 SOLVENT DENSITY: 970.70 VOC LE: 91.3

VOC AP: 91.2 FLASH POINT: 38 °C to below 60 °C H: 3 F: 2 R: 1 OSHA STORAGE: II PHOTOCHEMICALLY REACTIVE: YES

FG-2HTA™ 1,2,4-Trimethylbenzene (3 - 7%), 2,4,6-Tri((dimethylamino)methyl) phenol (1 - 5%), Acetone (5 - 10%), Amidoamine (10 - 30%), Amorphous silica (0.5 - 1.5%), Aromatic hydrocarbon-B (5 - 10%), Calcium phosphosilicate (5 - 10%), Cumene (0.1 - 1.0%), Dipropylene glycol methyl ether (1 - 5%), Glycidyl ether of alkyl phenol (10 - 30%), Hydrous magnesium silicate (15 - 40%), Phenolic polymer (0.5 - 1.5%), Toluene (1 - 5%), Xylene (0.1 - 1.0%)

DENSITY: 1,257.00 WT PCT SOLIDS: 75.33 VOL PCT SOLIDS: 63.59 SOLVENT DENSITY: 847.63 VOC LE: 242.1

VOC AP: 212.0 FLASH POINT: -7 °C to below 23 °C H: 3 F: 3 R: 1 OSHA STORAGE: IB PHOTOCHEMICALLY REACTIVE: YES

VF-026™ 1,2,4-Trimethylbenzene (1 - 5%), 2,4,6-Tri((dimethylamino)methyl) phenol (1 - 5%), Acetone (1 - 5%), Acrylic polymer-A (7 - 13%), Amidoamine (10 - 30%), Amorphous silica -fumed (1 - 5%), Aromatic hydrocarbon-A (0.5 - 1.5%), Aromatic hydrocarbon-B (5 - 10%), n-Butyl acetate (0.5 - 1.5%), Calcium phosphosilicate (1 - 5%), Cumene (0.1 - 1.0%), Hydrous magnesium silicate (3 - 7%), Kaolin(3 - 7%), Methyl amyl ketone (1 - 5%), Methyl ethyl ketone (7 - 13%), Mica (7 - 13%), n-Butyl alcohol (1 - 5%), Neodecanoic acid,2,3-epoxypropyl ester (7 - 13%), Quartz (SiO₂)(0.1 - 1.0%), Xylene (0.1 - 1.0%)

DENSITY: 1,105.00 WT PCT SOLIDS: 70.29 VOL PCT SOLIDS: 60.71 SOLVENT DENSITY: 836.24 VOC LE: 315.1

VOC AP: 306.4 FLASH POINT: -7 °C to below 23 °C H: 3 F: 3 R: 1 OSHA STORAGE: IB PHOTOCHEMICALLY REACTIVE: YES

VF-525™ Epoxy resin (30 - 60%), Ethyl acetate (5 - 10%), Hydrous magnesium silicate (15 - 40%), n-Butyl alcohol (1 - 5%), Phenolic polymer (10 - 30%), Toluene (7 - 13%)

DENSITY: 1,289.00 WT PCT SOLIDS: 80.99 VOL PCT SOLIDS: 71.86 SOLVENT DENSITY: 869.68 VOC LE: 245.0

VOC AP: 245.0 FLASH POINT: -7 °C to below 23 °C H: 2 F: 3 R: 0 OSHA STORAGE: IB PHOTOCHEMICALLY REACTIVE: YES

VG-026™ 1,2,4-Trimethylbenzene (1 - 5%), 2,4,6-Tri((dimethylamino)methyl) phenol (1 - 5%), Acetone (1 - 5%), Acrylic polymer-A (7 - 13%), Amidoamine (10 - 30%), Amorphous silica -fumed (1 - 5%), Aromatic hydrocarbon-A (0.5 - 1.5%), Aromatic hydrocarbon-B (5 - 10%), n-Butyl acetate (0.5 - 1.5%), Calcium phosphosilicate (1 - 5%), Cumene (0.1 - 1.0%), Hydrous magnesium silicate (3 - 7%), Kaolin(3 - 7%), Methyl amyl ketone (1 - 5%), Methyl ethyl ketone (7 - 13%), Mica (7 - 13%), n-Butyl alcohol (1 - 5%), Neodecanoic acid,2,3-epoxypropyl ester (7 - 13%), Quartz (SiO₂)(0.1 - 1.0%), Xylene (0.1 - 1.0%)

DENSITY: 1,105.00 WT PCT SOLIDS: 70.29 VOL PCT SOLIDS: 60.71 SOLVENT DENSITY: 837.44 VOC LE: 314.9

VOC AP: 306.4 FLASH POINT: -7 °C to below 23 °C H: 3 F: 3 R: 1 OSHA STORAGE: IB PHOTOCHEMICALLY REACTIVE: YES

Footnotes:

ACGIH	American Conference of Governmental Industrial Hygienists.
IARC	International Agency for Research on Cancer.
NTP	National Toxicology Program.
OSHA	Occupational Safety and Health Administration.
STEL	Short term exposure limit.
TWA	Time-weighted average.
DENSITY	Density g/l
SOLVENT DENSITY	(g/l)
VOC LE	Theoretical VOC calculated less exempt solvents and water (g/l)
VOC AP	Theoretical VOC calculated as packaged (g/l)
PNOR	Particles not otherwise regulated.
PNOC	Particles not otherwise classified.

* VOC less exempt (theoretical) and VOC as packaged (theoretical) are based upon the VOC of the packaged material at the point of manufacture.

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Notice:

Notice from Axalta Coating Systems

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MSDS prepared by: Axalta Coating Systems Regulatory Affairs