

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 01.03.2020

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Epo Coat Va-R, Medium Grey Component "A"

SECTION 1: Identification

Product identifier

Product name: Epo Coat Va-R, Medium Grey Component "A"



Recommended use of the product and restriction on use

Relevant identified uses: Industrial Use Only

Uses advised against: Any use other than that recommended above

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

Dynamis Epoxy Systems
415 E. Venice Avenue
Venice, FL 34285
941.488.3999
www.dcdynamis.com

Emergency telephone number:

United States

ChemTel
(888)-255-3924 (24 hours)

SECTION 2: Hazard(s) identification

GHS classification:

Eye irritation, category 2A
Skin sensitization, category 1
Acute toxicity (oral), category 4

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H319 Causes serious eye irritation
H317 May cause an allergic skin reaction
H302 Harmful if swallowed

Precautionary statements:

P264 Wash skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P272 Contaminated work clothing must not be allowed out of the workplace
P270 Do not eat, drink or smoke when using this product
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 If eye irritation persists: Get medical advice/attention

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P302+P352 IF ON SKIN: Wash with plenty of water

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P321 Specific treatment (see first aid instructions on this label)

P363 Wash contaminated clothing before reuse

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 Rinse mouth

P501 Dispose of contents/container in accordance with all local, regional, state and federal regulations.

Hazards not otherwise classified: None

Supplemental label elements:

9 percent of the mixture consists of ingredient(s) of unknown acute oral toxicity

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 14808-60-7	Silica, crystalline quartz (respirable)	<1
CAS number: 1317-65-3	Limestone	<30
CAS number: 25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran	60-63
CAS number: NA	Bisphenol A Epoxy Resin	<2
CAS number: N/A	Epoxy Diluent	<2
CAS number: 13463-67-7	Titanium Dioxide	5-8
CAS number: 107-21-1	Ethane-1,2-diol	<0.001

Additional Information:

The specific chemical identity and/or exact percentages (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200)

SECTION 4: First aid measures

Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If

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experiencing respiratory symptoms, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA with a full-face piece operated in positive pressure mode).

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions:

Should not be released into the environment and should be prevented from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up:

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

Reference to other sections:

For disposal see section 13.

For personal protection see Section 8.

SECTION 7: Handling and storage

Precautions for safe handling:

Wear recommended personal protective equipment (see section 8). Only use with adequate ventilation. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Avoid breathing mist/vapor/spray. Do not eat, drink or smoke while handling this product. Wash hands, forearms and face after handling. Keep away from incompatible materials (see Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition. Do not store in direct sunlight and protect from freezing and physical damage. Store away from incompatible materials described in Section 10. Keep containers tightly closed when not in use

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Silica, crystalline quartz (respirable)	14808-60-7	8-Hour TWA: 0.025 mg/m ³ (Respirable particulate matter)
	Limestone	1317-65-3	8-Hour TWA: 10 mg/m ³ (Inhalable particulate matter containing no asbestos and < 1% crystalline silica)
	Limestone	1317-65-3	8-Hour TWA: 3 mg/m ³ (Respirable particles)
	Titanium Dioxide	13463-67-7	8-Hour TWA: 10 mg/m ³
	Ethane-1,2-diol	107-21-1	8-Hour TWA: 25 ppm (vapor fraction)
	Ethane-1,2-diol	107-21-1	15-Minute STEL: 50 ppm (vapor fraction)
	Ethane-1,2-diol	107-21-1	15-Minute STEL: 10 mg/m ³ (aerosol only, inhalable fraction)
NIOSH	Silica, crystalline quartz (respirable)	14808-60-7	TWA: 0.05 mg/m ³ (10 hr. - (Respirable fraction))

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Silica, crystalline quartz (respirable)	14808-60-7	IDLH: 50 mg/m ³ (Respirable fraction)
	Limestone	1317-65-3	TWA: 10 mg/m ³ (REL - Total dust (for up to a 10 hour workday))
	Limestone	1317-65-3	TWA: 5 mg/m ³ (REL - Respirable fraction (for up to a 10 hour work day))
	Titanium Dioxide	13463-67-7	TWA: 2.4 mg/m ³ (REL - for fine TiO ₂ (for up to a 10 hour work day))
	Titanium Dioxide	13463-67-7	TWA: 0.3 mg/m ³ (REL - for ultra fine TiO ₂ (for up to a 10 hour work day))
OSHA	Silica, crystalline quartz (respirable)	14808-60-7	8-Hour TWA-PEL: 0.05 mg/m ³ ((Respirable Crystalline Silica))
	Silica, crystalline quartz (respirable)	14808-60-7	Level Limit Value: 0.025 mg/m ³ (Immediate Action Level - (Respirable Crystalline Silica))
	Limestone	1317-65-3	8-Hour TWA-PEL: 15 mg/m ³ (Total dust)
	Limestone	1317-65-3	8-Hour TWA-PEL: 5 mg/m ³ (Respirable fraction)
	Titanium Dioxide	13463-67-7	PEL: 15 mg/m ³ ((total dust) (Table Z-1))
	Titanium Dioxide	13463-67-7	8-Hour TWA: 10 mg/m ³ ((total dust) (Table Z-1-A))
	Ethane-1,2-diol	107-21-1	Ceiling Limit: 125 mg/m ³ (50 ppm)
United States(California)	Ethane-1,2-diol	107-21-1	Ceiling Limit: 100 mg/m ³ (40 ppm)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Use safety glasses with side shields or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

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Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Opaque, filled. Liquid resin.
Odor	Mild amine
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	>250°C
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	1.36g/cm ³
Relative density	1.37445 (H ₂ O=1)
Solubilities	Practically non-insoluble in water
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	14,000 cps.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability:

Stable under normal storage and handling conditions.

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Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:

Incompatible materials.

Keep away from heat/sparks/open flames/hot surfaces and ignition sources. - No smoking.

Incompatible materials:

Strong oxidizing agents.

Aluminium and peroxides.

Hazardous decomposition products:

In a fire, product will give off irritating fumes (CO, CO₂).

SECTION 11: Toxicological information

Acute toxicity

Assessment:

Harmful if swallowed.

Product data: No data available.

Substance data:

Name	Route	Result
Bisphenol A Epoxy Resin	oral	LD50 Rat: 11400 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
Epoxy Diluent	oral	LD50 Rat: 17100 mg/kg
Titanium Dioxide	oral	LD50 Mouse: > 5000 mg/kg
	inhalation	LC50 Rat: 5.09 mg/L (4 hr)
Ethane-1,2-diol	oral	LD50 Cat: 1650 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran	Causes skin irritation.
Bisphenol A Epoxy Resin	Causes skin irritation.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation.

Product data:

No data available.

Substance data:

Name	Result
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran	Causes serious eye irritation.
Bisphenol A Epoxy Resin	Causes serious eye irritation.

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Name	Result
Epoxy Diluent	Causes eye irritation.

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction.

Product data:

No data available.

Substance data:

Name	Result
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran	May cause an allergic skin reaction.
Bisphenol A Epoxy Resin	May cause an allergic skin reaction.
Epoxy Diluent	May cause an allergic skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Species	Result
Silica, crystalline quartz (respirable)	Not applicable	May cause cancer via inhalation.
Titanium Dioxide	Not applicable.	Airborne, unbound particles of respirable size are known to cause cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Silica, crystalline quartz (respirable)	Group 1
Titanium Dioxide	Group 2B

National Toxicology Program (NTP):

Name	Classification
Silica, crystalline quartz (respirable)	Known to be human carcinogens

OSHA Carcinogens: Not applicable

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

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Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Silica, crystalline quartz (respirable)	Causes damage to organs (Lungs) through prolonged or repeated exposure.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

Inhalation, Ingestion, Skin contact, Eye contact.

Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran	EC50 Scenedesmus capricornutum: 9 mg/L (48 H)
Bisphenol A Epoxy Resin	LC50 -: 1.2-3.6 mg/L (96 Hours)
	LC50 -: 1.1-2.8 mg/L (48 Hours)
	EC50 -: >11 mg/L (72 Hours)
Epoxy Diluent	LC50 -: >100 mg/L (96 Hours)
	EC50 -: 6-7 mg/L (48 Hours)
	EC50 -: >100 mg/L (72 Hours)
Ethane-1,2-diol	EC50 Green Algae: 479 mg/L (72 h)
	EC50 Daphnia magna: 13,900 mg/L (48 h)
	LC50 Pimephales promelas: 72,860 mg/L (96 h)

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

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Substance data:

Name	Result
Ethane-1,2-diol	NOEC Pimephales promelas: 2629 mg/L (7 d)
	EC50 Daphnia magna: 690 mg/L (16 d)

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Bisphenol A Epoxy Resin	Not readily biodegradable.
Epoxy Diluent	Readily biodegradable.
Titanium Dioxide	Degradation/biodegradation testing is not relevant for metals and metal compounds that are not (bio)degradable, including titanium dioxide.
Ethane-1,2-diol	Readily biodegradable.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Ethane-1,2-diol	Bioaccumulation in organisms is not to be expected.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None

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Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

14808-60-7	Silica, crystalline quartz (respirable)	Listed
1317-65-3	Limestone	Listed
25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran	Listed
NA	Bisphenol A Epoxy Resin	Listed
N/A	Epoxy Diluent	Listed
13463-67-7	Titanium Dioxide	Listed
107-21-1	Ethane-1,2-diol	Listed

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals:

13463-67-7	Titanium Dioxide	Not Listed
107-21-1	Ethane-1,2-diol	Listed

CERCLA:

107-21-1	Ethane-1,2-diol	Listed	5000
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RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

14808-60-7	Silica, crystalline quartz (respirable)	Listed
1317-65-3	Limestone	Listed
13463-67-7	Titanium Dioxide	Listed
107-21-1	Ethane-1,2-diol	Listed

New Jersey Right to Know:

14808-60-7	Silica, crystalline quartz (respirable)	Listed
1317-65-3	Limestone	Listed

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13463-67-7	Titanium Dioxide	Listed
107-21-1	Ethane-1,2-diol	Listed

New York Right to Know:

13463-67-7	Titanium Dioxide	Listed
107-21-1	Ethane-1,2-diol	Listed

Pennsylvania Right to Know:

14808-60-7	Silica, crystalline quartz (respirable)	Listed
1317-65-3	Limestone	Listed
13463-67-7	Titanium Dioxide	Listed
107-21-1	Ethane-1,2-diol	Listed

California Proposition 65:

⚠️WARNING: This product can expose you to chemicals including Silica, crystalline quartz (respirable) and Titanium Dioxide; which are known to the State of California to cause cancer; and Ethane-1,2-diol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet