

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/16/2017

Revision: 01/16/2017

1 Identification

- **Product identifier**
- **Trade name:** VCI Primer
- **Other means of identification:**
Part A- Polyamide Epoxy Primer MIL-DTL 24441 Formula 150 Type III/VCI
- **Recommended use and restriction on use**
- **Recommended use:** Anti-corrosion steel primer/ Surface coating/ Paint
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
VCI Coatings, LLC
437 Grant St, Suite 1210
Pittsburgh, PA 15219
Phone: 412-281-1202
- **Emergency telephone number:** 703-507-2314

2 Hazard(s) identification

- **Classification of the substance or mixture**
- Flam. Liq. 3 H226 Flammable liquid and vapor.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Dam. 1 H318 Causes serious eye damage.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.
- STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS02 GHS05 GHS07 GHS08

- **Signal word:** Danger

- **Hazard statements:**

H226 Flammable liquid and vapor.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer. Route of exposure: Inhalation.
 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- **Precautionary statements:**

P201 Obtain special instructions before use.
 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.

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| | |
|----------------|--|
| P241 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| P261 | Avoid breathing mist, vapors, or spray. |
| P264 | Wash thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P240 | Ground/bond container and receiving equipment. |
| P233 | Keep container tightly closed. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P370+P378 | In case of fire: Use foam, powder, or carbon dioxide for extinction. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P363 | Wash contaminated clothing before reuse. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

| | | |
|------------|---|--------|
| 14807-96-6 | Talc | 25-50% |
| 71-36-3 | butan-1-ol  Flam. Liq. 3, H226  Eye Dam. 1, H318  Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336 | 25-50% |
| 68082-29-1 | fatty acids, C-18-unsatd., dimers, polymers with tall-oil fatty acids and trietylenetetramine  Eye Dam. 1, H318  Skin Irrit. 2, H315; Skin Sens. 1, H317 | 10-25% |
| 13463-67-7 | titanium dioxide  Carc. 2, H351 | ≤2.5% |
| 100-41-4 | ethylbenzene  Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304  Acute Tox. 4, H332  Eye Irrit. 2B, H320 | < 1% |

· **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

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4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.
In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After skin contact:**

Immediately remove any clothing soiled by the product.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

- **After eye contact:**

Protect unharmed eye.
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

- **Most important symptoms and effects, both acute and delayed:**

Headache
Dizziness
Coughing
Breathing difficulty
Allergic reactions
Irritant to skin and mucous membranes.
Strong irritant with the danger of severe eye injury.
May cause respiratory irritation.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
Disorientation

- **Danger:**

Danger of impaired breathing.
Suspected of causing cancer. Route of exposure: Inhalation.
May cause drowsiness or dizziness.

- **Indication of any immediate medical attention and special treatment needed:**

Medical supervision for at least 48 hours.
If necessary oxygen respiration treatment.
Contains fatty acids, C-18-unsatd., dimers, polymers with tall-oil fatty acids and trietylenetetramine. May produce an allergic reaction.
Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Carbon dioxide
Fire-extinguishing powder
Alcohol resistant foam

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Water fog / haze

- **For safety reasons unsuitable extinguishing agents:** Water stream.

- **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

- **Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information:**

Eliminate all ignition sources if safe to do so.

Cool endangered containers with water fog.

Use large quantities of foam as it is partially destroyed by the product.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

- **Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

- **Methods and material for containment and cleaning up**

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Send for recovery or disposal in suitable receptacles.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- **Handling**

- **Precautions for safe handling:**

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Keep out of reach of children.

Avoid contact with the eyes and skin.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Fumes can combine with air to form an explosive mixture.

Protect against electrostatic charges.

Flammable liquid and vapor.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Provide ventilation for receptacles.
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizing agents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Keep containers tightly sealed.
- **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

14807-96-6 Talc

| | |
|---------------|--|
| PEL (USA) | Long-term value: 20 mppcf ppm (containing <1% Quartz) |
| REL (USA) | Long-term value: 2* mg/m ³ *respirable dust; and <1% Quartz |
| TLV (USA) | Long-term value: 2* mg/m ³ *as respirable fraction; E |
| EL (Canada) | Long-term value: 2 *0.1 f/cc mg/m ³ resp. *if contains asbestos : ACGIH A1, IARC 1 |
| EV (Canada) | Long-term value: 2* mg/m ³ , 2 f/cc ppm *respirable |
| LMPE (Mexico) | Long-term value: 2* mg/m ³ A4, *fracción respirable |

71-36-3 butan-1-ol

| | |
|---------------|---|
| PEL (USA) | Long-term value: 300 mg/m ³ , 100 ppm |
| REL (USA) | Ceiling limit value: 150 mg/m ³ , 50 ppm Skin |
| TLV (USA) | Long-term value: 61 mg/m ³ , 20 ppm |
| EL (Canada) | Long-term value: 15 ppm Ceiling limit value: 30 ppm |
| EV (Canada) | Long-term value: 20 ppm |
| LMPE (Mexico) | Long-term value: 20 ppm |

13463-67-7 titanium dioxide

| | |
|-----------|---|
| PEL (USA) | Long-term value: 15* mg/m ³ *total dust |
|-----------|---|

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| | |
|---------------|--|
| REL (USA) | See Pocket Guide App. A |
| TLV (USA) | Long-term value: 10 mg/m ³ withdrawn from NIC |
| EL (Canada) | Long-term value: 10* 3** mg/m ³ *total dust;**respirable fraction; IARC 2B |
| EV (Canada) | Long-term value: 10 mg/m ³ total dust |
| LMPE (Mexico) | Long-term value: 10 mg/m ³ A4 |

100-41-4 ethylbenzene

| | |
|---------------|---|
| PEL (USA) | Long-term value: 435 mg/m ³ , 100 ppm |
| REL (USA) | Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm |
| TLV (USA) | Long-term value: 87 mg/m ³ , 20 ppm BEI |
| EL (Canada) | Long-term value: 20 ppm IARC 2B |
| EV (Canada) | Short-term value: 540 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm |
| LMPE (Mexico) | Long-term value: 20 ppm |

· Ingredients with biological limit values:**100-41-4 ethylbenzene**

| | |
|-----------|---|
| BEI (USA) | 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) |
| - | Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) |

· Exposure controls**· Personal protective equipment:****· General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· Engineering controls: No relevant information available.**· Breathing equipment:**

Suitable respiratory protective device recommended.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

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- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No relevant information available.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **Appearance:**

| | |
|--------------------------|-----------------|
| · Form: | Liquid |
| · Color: | Dark grey |
| · Odor: | Characteristic |
| · Odor threshold: | Not determined. |

| | |
|---------------------------------------|-----------------|
| · pH-value: | Not determined. |
| · Melting point/Melting range: | Not determined. |
| · Boiling point/Boiling range: | 117 °C (243 °F) |

| | |
|-----------------------|----------------|
| · Flash point: | 38 °C (100 °F) |
|-----------------------|----------------|

| | |
|---|-----------------|
| · Flammability (solid, gaseous): | Not applicable. |
|---|-----------------|

| | |
|-------------------------------------|-----------------|
| · Auto-ignition temperature: | Not determined. |
|-------------------------------------|-----------------|

| | |
|-------------------------------------|-----------------|
| · Decomposition temperature: | Not determined. |
|-------------------------------------|-----------------|

| | |
|-------------------------------|--|
| · Danger of explosion: | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. |
|-------------------------------|--|

- **Explosion limits**

| | |
|-----------------|-----------|
| · Lower: | 1.5 Vol % |
| · Upper: | 9.4 Vol % |

| | |
|--------------------------------|-----------------|
| · Oxidizing properties: | Not determined. |
|--------------------------------|-----------------|

| | |
|---|-------------------|
| · Vapor pressure at 20 °C (68 °F): | 6.7 hPa (5 mm Hg) |
|---|-------------------|

| | |
|--|--|
| · Density at 20 °C (68 °F): | 1.34 g/cm ³ (11.182 lbs/gal) |
| · Relative density: | Not determined. |
| · Vapor density at 20 °C (68 °F): | > 1 g/cm ³ (> 8.345 lbs/gal) (Air =1) |
| · Evaporation rate: | Not determined. |

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- | | |
|---|------------------------------------|
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Other information | No relevant information available. |

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.
- **Possibility of hazardous reactions**
 Flammable liquid and vapor.
 Toxic fumes may be released if heated above the decomposition point.
 Reacts with strong alkali.
 Reacts with strong acids and oxidizing agents.
 Used empty containers may contain product gases which form explosive mixtures with air.
 Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products**
 Carbon monoxide and carbon dioxide
 Nitrogen oxides (NOx)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

71-36-3 butan-1-ol

| | | |
|------------|---------|---------------------|
| Oral | LD50 | 790 mg/kg (rat) |
| Dermal | LD50 | 3400 mg/kg (rabbit) |
| Inhalative | LC50/4h | 8000 mg/l (rat) |

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:**
 Contains fatty acids, C-18-unsatd., dimers, polymers with tall-oil fatty acids and trietylenetetramine. May produce an allergic reaction.

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer):**

| | | |
|------------|------------------|----|
| 13463-67-7 | titanium dioxide | 2B |
| 100-41-4 | ethylbenzene | 2B |

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:**

Inhalation.
Eye contact.
Skin contact.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carc. 2

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

- **Carcinogenicity:** Suspected of causing cancer. Route of exposure: Inhalation.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:**

May cause respiratory irritation.
May cause drowsiness or dizziness.

- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity**

Harmful to aquatic life with long lasting effects.

68082-29-1 fatty acids, C-18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine

EC50 | 7.07 mg/kg (daphnia) (48 hour)

LC50 | 7.07 mg/l (zebra fish) (96 hour)

- **Persistence and degradability** No relevant information available.

- **Bioaccumulative potential:** No relevant information available.

- **Mobility in soil:** No relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information**

- **General notes:** Do not allow product to reach ground water, water course or sewage system.

- **Other adverse effects** No relevant information available.

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13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

- **DOT**

Not regulated.

Reclassified as combustible under US DOT regulations. Labeling is only required for single packages ≥ 119 US gal / 450 L to include Combustible symbol and Proper Shipping Name.

- **ADR, IMDG, IATA**

UN1263

- **UN proper shipping name**

- **DOT**

Not regulated.

- **ADR, IMDG, IATA**

PAINT

- **Transport hazard class(es)**

- **DOT**

- **Class**

Not regulated.

- **ADR**



- **Class**

3 (F1) Flammable liquids

- **Label**

3

- **IMDG, IATA**



- **Class**

3 Flammable liquids

- **Label**

3

- **Packing group**

- **DOT**

Not regulated.

- **ADR, IMDG, IATA**

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- **Environmental hazards**

- **Marine pollutant:** No

- **Special precautions for user** Warning: Flammable liquids

- **Danger code (Kemler):** 30

- **EMS Number:** F-E,S-E

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

- **Transport/Additional information:**

- **ADR**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

- **IMDG**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

- **IATA**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each / 10 L net.

Limited quantity by air: 10L

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **United States (USA)**

- **SARA**

- **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 304 (emergency release notification):**

None of the ingredients are listed.

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**

71-36-3 | butan-1-ol

- **TSCA (Toxic Substances Control Act)**

Some ingredients listed.

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- **Proposition 65 (California)**

- **Chemicals known to cause cancer:**

14807-96-6 Talc

13463-67-7 titanium dioxide

100-41-4 ethylbenzene

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency):**

71-36-3 butan-1-ol

D

100-41-4 ethylbenzene

D

- **IARC (International Agency for Research on Cancer):**

100-41-4 ethylbenzene

2B

13463-67-7 titanium dioxide

2B

- **NIOSH-Ca (National Institute for Occupational Safety and Health):**

13463-67-7 titanium dioxide

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 01/16/2017 / -

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

LDLo: Lowest Lethal Dose Observed

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

Skin Sens. 1: Skin sensitisation – Category 1

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Carc. 2: Carcinogenicity – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com