



EUCLID CHEMICAL

Version: 1.0
Revision Date: 09/03/2015

SAFETY DATA SHEET

1. Identification

Material name: STAIN SEALER VOC - 5 GL SLATE
Material: CSSV G005 785

Recommended use and restriction on use

Recommended use: Coatings
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY
19218 REDWOOD ROAD
CLEVELAND OH 44110
US

Contact person: EH&S Department
Telephone: 216-531-9222
Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1B

Unknown toxicity - Health

Acute toxicity, oral 23.11 %
Acute toxicity, dermal 32.65 %
Acute toxicity, inhalation, vapor 99.78 %
Acute toxicity, inhalation, dust or mist 99.95 %

Environmental Hazards

Acute hazards to the aquatic environment Category 3

Unknown toxicity - Environment

Acute hazards to the aquatic environment 42.01 %
Chronic hazards to the aquatic environment 100 %

Label Elements

Hazard Symbol:



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|---|--|
| Signal Word: | Danger |
| Hazard Statement: | Highly flammable liquid and vapor. May cause genetic defects. May cause cancer. Harmful to aquatic life. |
| Precautionary Statement: | |
| Prevention: | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. |
| Response: | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use ... to extinguish. |
| Storage: | Store in well-ventilated place. Keep cool. Store locked up. |
| Disposal: | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |
| Other hazards which do not result in GHS classification: | Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion. |

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|--------------------------------|------------|-------------------------|
| Acetone | 67-64-1 | 15 - 40% |
| Tert-Butyl Acetate | 540-88-5 | 15 - 40% |
| Clay | 1332-58-7 | 5 - 10% |
| Aromatic petroleum distillates | 64742-95-6 | 5 - 10% |
| Titanium dioxide | 13463-67-7 | 5 - 10% |
| 1,2,4-Trimethylbenzene | 95-63-6 | 3 - 7% |
| Chromium oxide | 1308-38-9 | 1 - 5% |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.5 - 1.5% |



| | | |
|------------------------------------|-----------|----------|
| Xylene | 1330-20-7 | 0.1 - 1% |
| Iron oxide | 1309-37-1 | 0.1 - 1% |
| Aluminum oxide | 1344-28-1 | 0.1 - 1% |
| Cumene | 98-82-8 | 0.1 - 1% |
| Diisobutyl ketone | 108-83-8 | 0.1 - 1% |
| Carbon Black | 1333-86-4 | 0.1 - 1% |
| Stoddard solvent (Mineral Spirits) | 8052-41-3 | 0.1 - 1% |
| Tert-Butyl Alcohol | 75-65-0 | 0.1 - 1% |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

| | |
|----------------------|---|
| Ingestion: | Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth. |
| Inhalation: | Move to fresh air. |
| Skin Contact: | Wash skin thoroughly with soap and water. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention. |
| Eye contact: | Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention. |

Most important symptoms/effects, acute and delayed

Symptoms: Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

Special protective equipment and precautions for firefighters



Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

Methods and material for containment and cleaning up: Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Store locked up. Store in a well-ventilated place. Store in a cool place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | type | Exposure Limit Values | Source |
|--------------------|------|--------------------------|---|
| Acetone | TWA | 500 ppm | US. ACGIH Threshold Limit Values (2011) |
| | STEL | 750 ppm | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 1,000 ppm 2,400 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Tert-Butyl Acetate | TWA | 200 ppm | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 200 ppm 950 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) |



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|---------------------------------------|------|----------------------|---|
| | | | (02 2006) |
| Clay - Respirable fraction. | TWA | 2 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Clay - Total dust. | PEL | 15 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Titanium dioxide | TWA | 10 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| Titanium dioxide - Total dust. | PEL | 15 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| 1,2,4-Trimethylbenzene | TWA | 25 ppm | US. ACGIH Threshold Limit Values (2011) |
| Chromium oxide - as Cr | TWA | 0.5 mg/m3 | US. ACGIH Threshold Limit Values (03 2012) |
| | PEL | 0.5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | PEL | 1 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| 1,3,5-Trimethylbenzene | TWA | 25 ppm | US. ACGIH Threshold Limit Values (2011) |
| Xylene | TWA | 100 ppm | US. ACGIH Threshold Limit Values (2011) |
| | STEL | 150 ppm | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 100 ppm 435 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Iron oxide - Respirable fraction. | TWA | 5 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| Iron oxide - Fume. | PEL | 10 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide - Respirable fraction. | TWA | 1 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide - Total dust. | PEL | 15 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Cumene | TWA | 50 ppm | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 50 ppm 245 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Diisobutyl ketone | TWA | 25 ppm | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 50 ppm 290 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) |



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|------------------------------------|-----|---------------------|---|
| | | | (02 2006) |
| Carbon Black - Inhalable fraction. | TWA | 3 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| Carbon Black | PEL | 3.5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Stoddard solvent (Mineral Spirits) | TWA | 100 ppm | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 500 ppm 2,900 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Tert-Butyl Alcohol | TWA | 100 ppm | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 100 ppm 300 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |

| Chemical name | type | Exposure Limit Values | Source |
|---------------|-------|-----------------------|---|
| Acetone | STEL | 500 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | TWA | 250 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Acetone | TWAEV | 500 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| | STEL | 750 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Acetone | STEL | 1,000 ppm 2,380 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| | TWA | 500 ppm 1,190 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |



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| Tert-Butyl Acetate | TWA | 200 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Tert-Butyl Acetate | TWAEV | 200 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Tert-Butyl Acetate | TWA | 200 ppm 950 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Clay - Respirable. | TWA | 2 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Clay - Respirable fraction. | TWAEV | 2 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Clay - Respirable dust. | TWA | 5 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Titanium dioxide - Total dust. | TWA | 10 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide - Respirable fraction. | TWA | 3 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide | TWAEV | 10 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Titanium dioxide - Total dust. | TWA | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| 1,2,4-Trimethylbenzene | TWA | 25 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| 1,2,4-Trimethylbenzene | TWAEV | 25 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| 1,2,4-Trimethylbenzene | TWA | 25 ppm 123 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Chromium oxide - as | TWA | 0.5 mg/m3 | Canada. British Columbia OELs. |



| | | | |
|------------------------------|-------|-------------------|---|
| Cr | | | (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Chromium oxide - as Cr | TWAEV | 0.5 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| 1-Methoxy-2-propanol acetate | TWA | 50 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | STEL | 75 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| 1-Methoxy-2-propanol acetate | TWAEV | 50 ppm 270 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| 1,3,5-Trimethylbenzene | TWA | 25 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| 1,3,5-Trimethylbenzene | TWAEV | 25 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| 1,3,5-Trimethylbenzene | TWA | 25 ppm 123 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Xylene | TWA | 100 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | STEL | 150 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Xylene | TWAEV | 100 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| | STEL | 150 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Xylene | TWA | 100 ppm 434 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| | STEL | 150 ppm 651 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the |



| | | | |
|--------------------------|-------|---------------------|---|
| | | | Quality of the Work Environment) (12 2008) |
| Cumene | STEL | 75 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | TWA | 25 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Cumene | TWAEV | 50 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Cumene | TWA | 50 ppm 246 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Carbon Black - Inhalable | TWA | 3 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Carbon Black | TWAEV | 3.5 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Carbon Black | TWA | 3.5 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |

Biological Limit Values

| Chemical Identity | Exposure Limit Values | Source |
|---|-------------------------------|---------------------|
| Acetone (acetone: Sampling time: End of shift.) | 50 mg/l (Urine) | ACGIH BEL (03 2013) |
| Xylene (Methylhippuric acids: Sampling time: End of shift.) | 1.5 g/g (Creatinine in urine) | ACGIH BEL (03 2013) |

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

General information:

Use explosion-proof ventilation equipment. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.



| | |
|--------------------------------|--|
| Eye/face protection: | Wear safety glasses with side shields (or goggles). |
| Skin Protection | |
| Hand Protection: | Use suitable protective gloves if risk of skin contact. |
| Other: | Wear suitable protective clothing. |
| Respiratory Protection: | In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. |
| Hygiene measures: | Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. When using do not smoke. |

9. Physical and chemical properties

Appearance

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|--|---|
| Physical state: | liquid |
| Form: | liquid |
| Color: | Green |
| Odor: | Mild petroleum/solvent |
| Odor threshold: | No data available. |
| pH: | No data available. |
| Melting point/freezing point: | No data available. |
| Initial boiling point and boiling range: | > 35 °C > 95 °F |
| Flash Point: | -18 °C -0.40 °F(Tag closed cup) |
| Evaporation rate: | Slower than Ether |
| Flammability (solid, gas): | No |
| Upper/lower limit on flammability or explosive limits | |
| Flammability limit - upper (%): | 12.6 %(V) |
| Flammability limit - lower (%): | 2.6 %(V) |
| Explosive limit - upper (%): | No data available. |
| Explosive limit - lower (%): | No data available. |
| Vapor pressure: | No data available. |
| Vapor density: | Vapors are heavier than air and may travel along the floor and in the bottom of containers. |
| Relative density: | 0.99 |
| Solubility(ies) | |
| Solubility in water: | Practically Insoluble |
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | No data available. |
| Auto-ignition temperature: | No data available. |
| Decomposition temperature: | No data available. |
| Viscosity: | No data available. |

10. Stability and reactivity

| | |
|--------------------|--------------------|
| Reactivity: | No data available. |
|--------------------|--------------------|



| | |
|--|--|
| Chemical Stability: | Material is stable under normal conditions. |
| Possibility of Hazardous Reactions: | No data available. |
| Conditions to Avoid: | Heat, sparks, flames. |
| Incompatible Materials: | Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. |
| Hazardous Decomposition Products: | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

11. Toxicological information

Information on likely routes of exposure

| | |
|----------------------|---|
| Ingestion: | May be ingested by accident. Ingestion may cause irritation and malaise. |
| Inhalation: | In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. |
| Skin Contact: | May be harmful in contact with skin. Causes mild skin irritation. |
| Eye contact: | Eye contact is possible and should be avoided. |

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

| | |
|----------------------------|-------------------------|
| Oral Product: | ATEmix: 13,260.39 mg/kg |
| Dermal Product: | ATEmix: 4,601.69 mg/kg |
| Inhalation Product: | No data available. |

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|--|--------------------|
| Repeated dose toxicity Product: | No data available. |
|--|--------------------|

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|---|--------------------|
| Skin Corrosion/Irritation Product: | No data available. |
|---|--------------------|

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|---|--------------------|
| Serious Eye Damage/Eye Irritation Product: | No data available. |
|---|--------------------|

**Specified substance(s):**

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|------------------------------------|--|
| Acetone | in vivo (Rabbit, 24 hrs): Minimum grade of severe eye irritant |
| Tert-Butyl Acetate | in vivo (Rabbit, 24 hrs): Not irritating |
| Aromatic petroleum distillates | in vivo (Rabbit, 24 - 72 hrs): Not irritating |
| Titanium dioxide | in vivo (Rabbit, 24 - 72 hrs): Not irritating |
| 1,2,4-Trimethylbenzene | in vivo (Rabbit, 30 min): Not irritating |
| Chromium oxide | in vivo (Rabbit, 24 - 72 hrs): Not irritating |
| 1,3,5-Trimethylbenzene | in vivo (Rabbit, 30 min): Not irritating |
| Xylene | in vivo (Rabbit, 24 hrs): Moderately irritating |
| Iron oxide | in vivo (Rabbit, 1 - 72 hrs): Not irritating |
| Aluminum oxide | in vivo (Rabbit, 24 hrs): Not irritating |
| Cumene | in vivo (Rabbit, 24 hrs): Not irritating |
| Diisobutyl ketone | in vivo (Rabbit, 24 - 72 hrs): Not irritating |
| Carbon Black | in vivo (Rabbit, 24 - 72 hrs): Not irritating |
| Stoddard solvent (Mineral Spirits) | Irritating |
| Tert-Butyl Alcohol | Irritating |

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

| | |
|------------------|--|
| Titanium dioxide | Overall evaluation: Possibly carcinogenic to humans. |
| Cumene | Overall evaluation: Possibly carcinogenic to humans. |
| Carbon Black | Overall evaluation: Possibly carcinogenic to humans. |

US. National Toxicology Program (NTP) Report on Carcinogens:

Cumene Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

**Germ Cell Mutagenicity**

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.

12. Ecological information**Ecotoxicity:****Acute hazards to the aquatic environment:**

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|---|--|
| Fish Product: | No data available. |
| Specified substance(s): Acetone | LC 50 (Fathead minnow (Pimephales promelas), 96 h): 5,490 - 7,030 mg/l Mortality |
| Tert-Butyl Acetate | LC 50 (Fathead minnow (Pimephales promelas), 96 h): 296 - 362 mg/l Mortality |
| Titanium dioxide | LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality |
| 1,2,4-Trimethylbenzene | LC 50 (Fathead minnow (Pimephales promelas), 96 h): 7.19 - 8.28 mg/l Mortality |
| 1,3,5-Trimethylbenzene | LC 50 (Goldfish (Carassius auratus), 96 h): 9.89 - 15.05 mg/l Mortality |
| Xylene | LC 50 (Fathead minnow (Pimephales promelas), 96 h): 13.41 mg/l Mortality |
| Cumene | LC 50 (Fathead minnow (Pimephales promelas), 96 h): 6.04 - 6.61 mg/l Mortality |



| | |
|--------------------------------|--|
| Tert-Butyl Alcohol | LC 50 (Fathead minnow (<i>Pimephales promelas</i>), 96 h): 6,130 - 6,700 mg/l Mortality |
| Aquatic Invertebrates | |
| Product: | No data available. |
| Specified substance(s): | |
| Acetone | LC 50 (Water flea (<i>Daphnia magna</i>), 24 h): 10 mg/l Mortality EC 50 (Water flea (<i>Daphnia magna</i>), 48 h): 21,600 - 23,900 mg/l Intoxication LC 50 (Scud (<i>Gammarus fasciatus</i>), 96 h): > 100 mg/l Mortality LC 50 (Asiatic clam (<i>Corbicula manilensis</i>), 96 h): > 20,000 mg/l Mortality LC 50 (Water flea (<i>Daphnia magna</i>), 96 h): > 100 mg/l Mortality |
| Tert-Butyl Acetate | LC 50 (Water flea (<i>Daphnia magna</i>), 24 h): 4,730 mg/l Mortality |
| Titanium dioxide | EC 50 (Water flea (<i>Daphnia magna</i>), 48 h): > 1,000 mg/l Intoxication |
| 1,2,4-Trimethylbenzene | LC 50 (Scud (<i>Elasmopus pectinicus</i>), 24 h): 4.89 - 5.62 mg/l Mortality |
| 1,3,5-Trimethylbenzene | EC 50 (Water flea (<i>Daphnia magna</i>), 24 h): 50 mg/l Intoxication |
| Xylene | LC 50 (Water flea (<i>Daphnia magna</i>), 24 h): > 100 - 1,000 mg/l Mortality |
| Cumene | LC 50 (Water flea (<i>Daphnia magna</i>), 24 h): 95 mg/l Mortality |
| Diisobutyl ketone | LC 50 (Brine shrimp (<i>Artemia salina</i>), 24 h): 65 mg/l Mortality |
| Tert-Butyl Alcohol | EC 50 (Water flea (<i>Daphnia magna</i>), 24 h): 4,607 - 6,577 mg/l Intoxication |

Chronic hazards to the aquatic environment:**Fish**

| | |
|--------------------------------|--|
| Product: | No data available. |
| Specified substance(s): | |
| Aromatic petroleum distillates | NOAEL (<i>Daphnia magna</i> , 21 d): 2.6 mg/l read across |
| Titanium dioxide | LC 0 (<i>Coregonus autumnalis migratorius</i> G., 30 d): 3 mg/l experimental result |
| Chromium oxide | NOAEL (<i>Danio rerio</i> , 30 d): 1,000 mg/l interpreted |
| Xylene | NOAEL (<i>Oncorhynchus mykiss</i> , 56 d): > 1.3 mg/l experimental result |
| Iron oxide | LOAEL (<i>Pimephales promelas</i> , 33 d): 1.6 mg/l experimental result |
| Aluminum oxide | NOAEL (<i>Pimephales promelas</i> , 28 d): 4.7 mg/l experimental result |
| Cumene | NOAEL (<i>Danio rerio</i> and <i>Pimephales promelas</i> , 28 d): 0.38 mg/l QSAR |
| Carbon Black | NOAEL (<i>Salmo sp.</i> , 30 d): 17 mg/l QSAR |
| Tert-Butyl Alcohol | NOAEL (<i>Clarias gariepinus</i> , 120 h): 332 mg/l experimental result |



Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.

BOD/COD Ratio
Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

- Specified substance(s):**
- Acetone Log Kow: -0.24
 - Tert-Butyl Acetate Log Kow: 1.76
 - Xylene Log Kow: 3.12 - 3.20
 - Cumene Log Kow: 3.66
 - Stoddard solvent (Mineral Spirits) Log Kow: 3.16 - 7.15
 - Tert-Butyl Alcohol Log Kow: 0.35

Mobility in Soil: No data available.

Other Adverse Effects: Harmful to aquatic organisms.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.



14. Transport information

TDG:

UN1139, COATING SOLUTION, 3, PG II

CFR / DOT:

UN1139, Coating solution, 3, PG II

IMDG:

UN1139, COATING SOLUTION, 3, PG II

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Acetone | 5000 lbs. |
| Tert-Butyl Acetate | 5000 lbs. |
| Chromium oxide | 10 lbs. |
| Xylene | 100 lbs. |
| Cumene | 5000 lbs. |
| Tert-Butyl Alcohol | 100 lbs. |
| Ethylbenzene | 1000 lbs. |
| Isobutyl alcohol | 5000 lbs. |
| Phosphoric acid | 5000 lbs. |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard
Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



SARA 304 Emergency Release Notification

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------------|----------------------------|
| Acetone | 5000 lbs. |
| Tert-Butyl Acetate | 5000 lbs. |
| Chromium oxide | 10 lbs. |
| Xylene | 100 lbs. |
| Cumene | 5000 lbs. |
| Tert-Butyl Alcohol | 100 lbs. |
| Ethylbenzene | 1000 lbs. |
| Isobutyl alcohol | 5000 lbs. |
| Phosphoric acid | 5000 lbs. |
| 2-Butoxyethanol (Glycol ether) | |

SARA 311/312 Hazardous Chemical

| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
|------------------------------------|------------------------------------|
| Acetone | 500 lbs |
| Tert-Butyl Acetate | 500 lbs |
| Clay | 500 lbs |
| Aromatic petroleum distillates | 500 lbs |
| Titanium dioxide | 500 lbs |
| 1,2,4-Trimethylbenzene | 500 lbs |
| Chromium oxide | 500 lbs |
| 1,3,5-Trimethylbenzene | 500 lbs |
| Xylene | 500 lbs |
| Iron oxide | 500 lbs |
| Aluminum oxide | 500 lbs |
| Cumene | 500 lbs |
| Diisobutyl ketone | 500 lbs |
| Carbon Black | 500 lbs |
| Stoddard solvent (Mineral Spirits) | 500 lbs |
| Tert-Butyl Alcohol | 500 lbs |

SARA 313 (TRI Reporting)

| <u>Chemical Identity</u> |
|--------------------------|
| 1,2,4-Trimethylbenzene |
| Chromium oxide |

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.



US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

- Acetone
- Tert-Butyl Acetate
- Clay
- Titanium dioxide
- 1,2,4-Trimethylbenzene
- Chromium oxide

US. Massachusetts RTK - Substance List

Chemical Identity

- Acetone
- Tert-Butyl Acetate
- Clay
- Titanium dioxide
- 1,2,4-Trimethylbenzene
- Chromium oxide
- Crystalline Silica (Quartz)/ Silica Sand
- Silica (crystalline-cristobalite)

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

- Acetone
- Tert-Butyl Acetate
- Clay
- Titanium dioxide
- 1,2,4-Trimethylbenzene
- Chromium oxide

US. Rhode Island RTK

Chemical Identity

- Acetone
- Tert-Butyl Acetate
- 1,2,4-Trimethylbenzene
- Chromium oxide

Other Regulations:

| | |
|--|---------|
| Regulatory VOC (less water and exempt solvent): | 314 g/l |
| VOC Method 310: | 36.03 % |

Inventory Status:

| | |
|----------------------------|--|
| Australia AICS: | One or more components in this product are not listed on or exempt from the inventory. |
| Canada DSL Inventory List: | One or more components in this product are not listed on or exempt from the inventory. |
| EINECS, ELINCS or NLP: | One or more components in this product are not listed on or exempt from the inventory. |
| Japan (ENCS) List: | One or more components in this product are |



| | |
|--|--|
| | not listed on or exempt from the Inventory. |
| China Inv. Existing Chemical Substances: | One or more components in this product are not listed on or exempt from the Inventory. |
| Korea Existing Chemicals Inv. (KECI): | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada NDSL Inventory: | One or more components in this product are not listed on or exempt from the Inventory. |
| Philippines PICCS: | One or more components in this product are not listed on or exempt from the Inventory. |
| US TSCA Inventory: | One or more components in this product are not listed on or exempt from the Inventory. |
| New Zealand Inventory of Chemicals: | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan ISHL Listing: | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan Pharmacopoeia Listing: | One or more components in this product are not listed on or exempt from the Inventory. |

16. Other information, including date of preparation or last revision

Revision Date: 09/03/2015

Version #: 1.0

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.