

# 1. Product and Company Identification

Product Name: Raven 520 Part A

Raven Lining Systems 13105 East 61st Street, Suite A Broken Arrow, OK 74012

www.ravenlining.com

Company Phone: (918) 615-0020 Company Toll Free: (800) 324-2810

CHEMTREC 24 hour Emergency USA: (800) 424-9300 CHEMTREC 24 hour International: (703) 527-3887

Product Use: Primer / Sealer / Coating / Lining Not recommended for: Non Professional Use

# 2. Hazards Identification

### Signal Word: Danger



#### **GHS Ratings:**

Respiratory sensitizer 1 Respiratory sensitizer. Skin sensitizer 1 Skin sensitizer.

### **GHS Hazards**

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### **GHS Precautions**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

P321 Specific treatment (see Section 4 of the SDS).
P363 Wash contaminated clothing before reuse.
P302+P352 IF ON SKIN: Wash with soap and water.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a

position comfortable for breathing.

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

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P501 Dispose of contents/container according to Section 13 of the SDS.

# 3. Composition / Information on Ingredients

Chemical Name	CAS number	Weight Concentration %

SDS for: Raven 520 Part A Page 1 of 6

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### 4. First Aid Measures

Inhalation: Remove to fresh air if effects occur. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Consult a physician or transport to a medical facility.

Eye Contact: Immediately flush eyes with large quantities of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Skin Contact: Wash immediately and thoroughly with soap and lukewarm flowing water. Remove contaminated clothing while washing. Seek medical attention if irritation develops and persists. This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Notes to Physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Maintain adequate ventilation and oxygenation of the patient. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. If you are sensitized to diisocyanates, consult your physician regarding working with other respiratory irritants or sensitizers. Cholinesterase inhibition has been noted in human exposure but is not of benefit in determining exposure and is not correlated with signs of exposure. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

## 5. Fire Fighting Measures

Flash Point: >160 C (>320 F)

Flammable Properties: Product is not considered a fire hazard, but will burn if ignited.

NFPA Flammability Class: III B (Combustible liquid).

Suitable Extinguishing Media: Carbon dioxide, dry chemical, water fog or fine spray. Alcohol resistant foams are preferred, general purpose synthetic foams or protein foams may function, but will not be as effective. Unsuitable Extinguishing Media: Do not use direct water stream, as it may spread fire.

Unusual Fire and Explosion Hazards: Product reacts with water. Reaction may produce heat and/or gases. This reaction may be violent. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is produced when product burns.

Products of Combustion: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, phenolics, ammonia, nitrogen oxides, isocyanates, hydrogen cyanide and other unidentified toxic and/or irritating compounds.

Fire Fighting: Stay upwind and keep people away. Isolate fire and deny unnecessary entry. Keep out of low areas where gases (fumes) can accumulate. Water is not recommended, but may be applied in large quantities as a fine spray when other extinguishing agents are not available. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Move container from fire area if this is possible without hazard. Use water spray to cool fire-exposed containers and fire-affected zone until fire is out. Contain fire water run-off if possible, as it may cause environmental damage. Review section 6 and section 12 of this SDS.

Protection of Firefighters: Wear positive pressure self-contained breathing apparatus (SCBA) and approved protective clothing (helmet, coat, trousers, boots and gloves). If contact is likely, use full chemical resistant fire fighting clothing with SCBA.

## 6. Accidental Release Measures

Personal Precautions: Put on appropriate personal protective equipment (see section 8). Environmental Precautions: Prevent spilled material from contact with soil, drains and sewers.

SDS for: Raven 520 Part A Page 2 of 6

Methods for Containment: Contain by diking with sand, earth or other suitable material.

Methods for Clean-up: Absorb spill with an inert material, use non-sparking tools to place into labeled waste container for disposal.

## 7. Handling and Storage

Handling: Wear appropriate personal protective equipment (see section 8). Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Do not ingest. Avoid prolonged or repeated contact with skin. May cause allergic skin reaction, persons with a history of skin sensitization should not be employed in any process in which this product is used. Wash thoroughly with soap and water after handling. Do not handle or store near flame, heat or strong oxidants. Keep away from sources of ignition and hot metal surfaces.

Storage: Store original unopened containers in a sheltered area between 60°F and 80°F (15°C and 27°C) at atmospheric pressure. Do not store in direct sunlight. Keep containers closed when not in use.

## 8. Exposure Controls / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Hexamethylene Diisocyanate Homopolymer 28182-81-2	Not Established	Not Established	Not Established

Engineering Controls: General mechanical ventilation is sufficient for most conditions. Control airborne levels below the exposure guidelines, if established.

Local exhaust ventilation may be necessary for some operations.

General Hygiene Considerations: Wash thoroughly after handling and before eating, drinking or smoking.

Eye/face Protection: Use chemical safety glasses, splash-proof eye goggles or goggles with full faceshield. Skin Protection: Use neoprene, nitrile/butadiene rubber or other impermeable chemical resistant gloves to prevent skin irritation. If potential for skin contact is present, wear impervious, long-sleeved, body covering clothing and rubber boots. Respiratory Protection: If exposure may or does exceed occupational exposure limits, respiratory irritation is experienced, or during spray application, use a properly fitted MSHA/NIOSH approved respirator fitted with organic vapor cartridges and particulate pre-filters. If the respirator is the sole means of protection, use a full-face supplied air respirator. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use an approved

positive-pressure air-supplying respirator (air line or self-contained breathing apparatus). If sanding or grinding on cured material, use above respirator fitted with HEPA filters or a dust mask.

Contaminated Gear: Remove contaminated clothing and shoes while washing. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

## 9. Physical and Chemical Properties

Appearance Clear to pale yellow

Odor Threshold No data found

**pH** No data found

**Boiling Point** No data found

Flash Point 320 F, 160 C

Flammability (solid, gas) No data found

Vapor Pressure No data found

Specific Gravity 1.1 - 1.3

Partition Coefficient No data found (n-octanol/water)

Viscosity No data found

Odor Mild

Physical State Liquid

Melting/Freezing Point No data found

Boiling Range No data found

**Evaporation Rate No data found** 

LEL/UEL No data found

Vapor Density No data found

Solubility in Water No data found

**Decomposition Temperature** No data found

Lbs VOC/Gallon Less Water 0.0

# 10. Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions (see Section 7).

SDS for: Raven 520 Part A Page 3 of 6

Conditions to Avoid: Avoid temperatures above 450 deg F (230 deg C), potential violent decomposition may occur. Avoid contact with water, as material reacts with water, releasing carbon dioxide which can cause rapid pressure buildup and rupture of closed containers. Elevated temperatures accelerate this reaction.

Incompatible Materials: Strong acids, bases, or oxidizing agents. Avoid unintended contact with amines, alcohols, water, moist air and metals such as aluminum, brass, copper, tin, zinc and galvanized metals.

Products of Combustion: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, phenolics, ammonia, nitrogen oxides, isocyanates, hydrogen cyanide and other unidentified toxic and/or irritating compounds.

Hazardous polymerization will not occur.

## 11. Toxicological Information

#### **Mixture Toxicity**

Inhalation Toxicity LC50: 19mg/L

**Component Toxicity** 

Likely Routes of Exposure:

No data found

**Target Organs** 

May cause damage to the following organs:

No data found

**Effects of Overexposure** 

CAS NumberDescription% WeightCarcinogen RatingNoneNo data found

## 12. Ecological Information

### **Component Ecotoxicity**

### 13. Disposal Considerations

Waste Disposal Methods: Dispose of in accordance with federal, state and local regulations. The preferred method for disposal of uncontaminated product is by recycling, reclaiming, incineration or other thermal destruction device using a licensed and permitted waste disposal contractor.

### 14. Transport Information

Agency Proper Shipping Name UN Number Packing Group Hazard Class

DOT Not Regulated ICAO/IATA Not Regulated IMDG Not Regulated TDG Not Regulated

### 15. Regulatory Information

USA Federal: This SDS has been prepared in compliance with the Occupational Safety and Health Act (OSHA) Hazard Communication Standard (29 CFR 1910.1200). This product is considered to be a hazardous chemical under that standard. The specific chemical identity and/or exact percentage of any proprietary ingredient(s) may be withheld as a trade secret, pursuant to the standard.

SDS for: Raven 520 Part A Page 4 of 6

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): To the best of our knowledge, this product contains the following chemicals which are known to the State of California to cause cancer or reproductive toxicity at levels which require warning under this statute:

- None

Massachusetts Right to Know: To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

- None

New Jersey Right to Know: To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

- None

Pennsylvania Right to Know: To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

- None

USA Resource Conservation and Recovery Act (40 CFR 261): To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

- None

USA Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) - section 302 Extremely Hazardous Substances Reportable Quantities (RQs): To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

- None

USA Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) - section 302 Extremely Hazardous Substances Threshold Planning Quantities (TPQs): To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

- None

USA Toxic Substances Control Act (TSCA) - section 12(b): To the best of our knowledge, this product contains the following chemicals above the de minimus concentration(s) which requires notification to the Environmental Protection Agency (EPA) per 40 CFR 707, subpart D, if any person intends to export:

- None

Country	Regulation	All Components Listed
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Canada Domestic Substance List	Yes
Canada	Canada Non-Domestic Substances List (NDSL)	No
China	China Inventory of Existing Chemical Substances	Yes
EU	EU REACH List of Registered Intermediates	No
EU	EU REACH List of Pre-Registered Substances	Yes
EU	EU REACH List of Registered Substances	Yes
Japan	Japanese Existing and New Chemical Substances List	Yes
South Korea	South Korea Existing Chemicals Inventory	Yes
Philippines	Philippines Inventory of Chemicals and Chemical	Yes
USA	USA TSCA Inventory list section 8(b)	Yes

- None

SDS for: Raven 520 Part A Page 5 of 6

## 16. Other Information

Legend

ACGIH American Conference of Governmental Industrial Hygienists, Inc.

ADR/RID European Agreement for transport of dangerous goods by road (ADR) and by rail (RID)

CAS No. Chemical Abstract Service Registry Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act, AKA "Superfund"

DOT Department of Transportation (USA)

HCS OSHA Hazard Communication Standard (29 CFR 1910.1200)

IARC International Agency for Research on Cancer
IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMO International Maritime Organization
IMDG International Maritime Dangerous Goods
MSHA Mine Safety and Health Administration

N.A. Not ApplicableN.D. Not DeterminedN.E. Not Established

NFPA National Fire Protection Association

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration (USA)

PEL Permissible Exposure Limit

SARA Superfund Amendments and Reauthorization Act of 1986 (40 CFR)
STEL Short Term Exposure Limit (15 minute Time Weighted Average)

TDG Canada Transport of Dangerous Goods regulations

TLV Threshold Limit Value TWA Time Weighted Average

WHMIS Canada Workplace Hazardous Materials Information System

#### **Hazardous Material Information System (HMIS)**

#### National Fire Protection Association (NFPA)



HMIS & NFPA Hazard Rating Legend

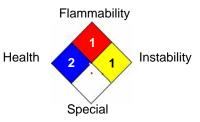
\* = Chronic Health Hazard

0 = INSIGNIFICANT

1 = SLIGHT 2 = MODERATE

Z = WODEK

3 = HIGH



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Reviewer Revision

Date Prepared: 12/15/2015

SDS for: Raven 520 Part A Page 6 of 6



## 1. Product and Company Identification

Product Name: Raven 520 Part B

Raven Lining Systems 13105 East 61st Street, Suite A Broken Arrow, OK 74012

www.ravenlining.com

Company Phone: (918) 615-0020 Company Toll Free: (800) 324-2810

CHEMTREC 24 hour Emergency USA: (800) 424-9300 CHEMTREC 24 hour International: (703) 527-3887

Product Use: Primer / Sealer / Coating / Lining Not recommended for: Non Professional Use

# 2. Hazards Identification

## Signal Word: Warning



#### **GHS Ratings:**

Skin sensitizer 1 Skin sensitizer.

**GHS Hazards** 

H317 May cause an allergic skin reaction.

**GHS Precautions** 

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see Section 4 of the SDS).
P363 Wash contaminated clothing before reuse.
P302+P352 IF ON SKIN: Wash with soap and water.

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
P501 Dispose of contents/container according to Section 13 of the SDS.

## 3. Composition / Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Aspartic Acid Ester	136210-30-5	50 - 70%
Titanium Dioxide	13463-67-7	0 - 15%
Fumaric Acid Diester	623-91-6	1 - 5%
Carbon Black	1333-86-4	0 - 5%
Amorphous Fumed Silica	67762-90-7	0 - 5%

SDS for: Raven 520 Part B Page 1 of 7

### 4. First Aid Measures

Inhalation: Remove to fresh air if effects occur. Consult a physician.

Eye Contact: Flush with large quantities of water for at least 15 minutes. Consult a physician.

Skin Contact: Wash thoroughly with soap and flowing water.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Notes to Physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. Fire Fighting Measures

Flash Point: >100 C (>212 F)

Flammable Properties: Product is not considered a fire hazard, but will burn if ignited.

NFPA Flammability Class: Class III A liquids are combustible liquids that have a flash point  $\geq$  140 deg F (60 deg C), but < 200 deg F (93 deg C). Class III B liquids are combustible liquids that have a flash point  $\geq$ 200 deg F.

Suitable Extinguishing Media: Carbon dioxide, dry chemical, water fog or fine spray. Alcohol resistant foams are preferred, general purpose synthetic foams or protein foams may function, but will not be as effective.

Unsuitable Extinguishing Media: Do not use direct water stream, as it may spread fire.

Products of Combustion: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, phenolics, ammonia, nitrogen oxides and other unidentified toxic and/or irritating compounds.

Fire Fighting: Stay upwind and keep people away. Isolate fire and deny unnecessary entry. Keep out of low areas where gases (fumes) can accumulate. Water is not recommended, but may be applied in large quantities as a fine spray when other extinguishing agents are not available. Use water spray to cool fire-exposed containers and fire-affected zone until fire is out. Contain fire water run-off if possible, as it may cause environmental damage. Review section 6 and section 12 of this SDS.

Protection of Firefighters: Wear positive pressure self-contained breathing apparatus (SCBA) and approved protective clothing (helmet, coat, trousers, boots and gloves). If contact is likely, use full chemical resistant fire fighting clothing with SCBA.

### 6. Accidental Release Measures

Personal Precautions: Put on appropriate personal protective equipment (see section 8).

Environmental Precautions: Prevent spilled material from contact with soil, drains and sewers.

Methods for Containment: Contain by diking with sand, earth or other suitable material.

Methods for Clean-up: Absorb spill with an inert material, use non-sparking tools to place into labeled waste container for disposal.

### 7. Handling and Storage

Handling: Wear appropriate personal protective equipment (see section 8). Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Do not ingest. Avoid prolonged or repeated contact with skin. May cause allergic skin reaction, persons with a history of skin sensitization should not be employed in any process in which this product is used. Wash thoroughly with soap and water after handling. Do not handle or store near flame, heat or strong oxidants. Keep away from sources of ignition and hot metal surfaces.

Storage: Store original unopened containers in a sheltered area between 60°F and 80°F (15°C and 27°C) at atmospheric pressure. Do not store in direct sunlight. Keep containers closed when not in use.

## 8. Exposure Controls / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Aspartic Acid Ester 136210-30-5	Not Established	Not Established	Not Established
Titanium Dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	Not Established

SDS for: Raven 520 Part B Page 2 of 7

Fumaric Acid Diester 623-91-6	Not Established	Not Established	Not Established
Carbon Black 1333-86-4	3.5 mg/m3 TWA	3 mg/m3 TWA (inhalable fraction)	NIOSH: 3.5 mg/m3 TWA; 0.1 mg/m3 TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)
Amorphous Fumed Silica 67762-90-7	Not Established	Not Established	Not Established

Engineering Controls: General mechanical ventilation is sufficient for most conditions. Control airborne levels below the exposure guidelines, if established.

Local exhaust ventilation may be necessary for some operations.

General Hygiene Considerations: Wash thoroughly after handling and before eating, drinking or smoking.

Eye/face Protection: Use chemical safety glasses, splash-proof eye goggles or goggles with full faceshield.

Skin Protection: Use nitrile or other impermeable chemical resistant gloves to prevent skin irritation. If potential for skin contact is present, wear impervious, long-sleeved, body covering clothing and rubber boots.

Respiratory Protection: Respiratory protection should not be needed. If exposure may or does exceed occupational exposure limits, respiratory irritation is experienced, or during spray application, use a properly fitted MSHA/NIOSH approved respirator fitted with organic vapor cartridges. In addition, spray application may require the use of paint pre-filters. If the respirator is the sole means of protection, use a full-face supplied air respirator. If sanding or grinding on cured material, use above respirator fitted with HEPA filters or a dust mask.

Contaminated Gear: Remove contaminated clothing and shoes while washing. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

# 9. Physical and Chemical Properties

Appearance Product color varies	Odor Ammonia-like
Odor Threshold No data found	Physical State Liquid
<b>pH</b> No data found	Melting/Freezing Point No data found
Boiling Point 214°C	Boiling Range No data found
Flash Point 212 F, 100 C	Evaporation Rate No data found
Flammability (solid, gas) No data found	LEL/UEL No data found
Vapor Pressure No data found	Vapor Density No data found
Specific Gravity 1.0 - 1.2	Solubility in Water No data found
Partition Coefficient No data found (n-octanol/water)	Autoignition Temperature No data found
Decomposition Temperature No data found	Viscosity No data found
Lbs VOC/Gallon Less Water 0.0	

# 10. Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions (see Section 7).

Conditions to Avoid: Elevated temperatures may cause product to decompose.

Incompatible Materials: Strong acids, bases, or oxidizing agents. Avoid unintended contact with isocyanates and/or epoxies.

Products of Combustion: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, phenolics, ammonia, nitrogen oxides and other unidentified toxic and/or irritating compounds.

Hazardous polymerization will not occur.

## 11. Toxicological Information

Mixture Toxicity
Component Toxicity

SDS for: Raven 520 Part B

Toxicological information on this product or its components appear in this section when such data is available.

### Likely Routes of Exposure:

No data found

#### **Target Organs**

May cause damage to the following organs:

Eyes Respiratory System

### **Effects of Overexposure**

Carcinogenicity: Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2b) through inhalation (not ingestion), based on lifetime inhalation studies of rats. The IARC's findings were consistent with the massive accumulation of fine dust particles in the rat's lung (which overwhelm the natural lung clearance mechanisms, causing lung overloading) and consequential pulmonary overload and inflammation that causes lung cancer. In further studies, these tumors were found to occur only under particle overload conditions in a uniquely sensitive species, the rat, and have little or no relevance for humans. Epidemiology studies on more than 20,000 workers do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. If present in this product, the titanium dioxide is in a "wet out" form and does not pose an inhalation hazard.

Carcinogenicity: This product may contain carbon black, a substance that has been listed by OSHA as a carcinogen to humans when inhaled. If present in this product, it is pre-dispersed in a liquid and not available as a dust. Under normal use conditions it would not be considered a hazard. IARC characterized carbon black as a possible human carcinogen (Group 2B) and concluded that there is sufficient evidence in experimental animals for the carcinogenicity of inhaled carbon black dust and inadequate evidence of carcinogenicity in humans. The IARC's findings were consistent with the massive accumulation of fine dust particles in the lung which overwhelm the natural lung clearance mechanisms, known as "lung overload" phenomenon, rather than from a specific chemical effect from the carbon black in the lung. NIOSH recommends that only carbon blacks with a PAH level greater than 0.1% be considered potential occupational carcinogens.

CAS Number	<u>Description</u>	% Weight	Carcinogen Rating
1333-86-4	Carbon Black	0 - 5%	Carbon Black: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
13463-67-7	Titanium Dioxide	0 - 15%	Titanium Dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

### 12. Ecological Information

## **Component Ecotoxicity**

#### 13. Disposal Considerations

Waste Disposal Methods: Dispose of in accordance with federal, state and local regulations. The preferred method for disposal of uncontaminated product is by recycling, reclaiming, incineration or other thermal destruction device using a licensed and permitted waste disposal contractor.

### 14. Transport Information

SDS for: Raven 520 Part B Page 4 of 7

<u>Agency</u> <u>Proper Shipping Name</u> <u>UN Number</u> <u>Packing Group</u> <u>Hazard Class</u>

DOT Not Regulated ICAO/IATA Not Regulated IMDG Not Regulated TDG Not Regulated

## 15. Regulatory Information

USA Federal: This SDS has been prepared in compliance with the Occupational Safety and Health Act (OSHA) Hazard Communication Standard (29 CFR 1910.1200). This product is considered to be a hazardous chemical under that standard. The specific chemical identity and/or exact percentage of any proprietary ingredient(s) may be withheld as a trade secret, pursuant to the standard.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): To the best of our knowledge, this product contains the following chemicals which are known to the State of California to cause cancer or reproductive toxicity at levels which require warning under this statute:

```
1333-86-4 Carbon Black 0 to 5 % 13463-67-7 Titanium Dioxide 0 to 15 %
```

Massachusetts Right to Know: To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

```
1333-86-4 Carbon Black 0 to 5 % 13463-67-7 Titanium Dioxide 0 to 15 %
```

New Jersey Right to Know: To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

```
1333-86-4 Carbon Black 0 to 5 %
13463-67-7 Titanium Dioxide 0 to 15 %
```

Pennsylvania Right to Know: To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

```
1333-86-4 Carbon Black 0 to 5 %
13463-67-7 Titanium Dioxide 0 to 15 %
```

USA Resource Conservation and Recovery Act (40 CFR 261): To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

- None

USA Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) - section 302 Extremely Hazardous Substances Reportable Quantities (RQs): To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

- None

USA Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) - section 302 Extremely Hazardous Substances Threshold Planning Quantities (TPQs): To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

- None

USA Toxic Substances Control Act (TSCA) - section 12(b): To the best of our knowledge, this product contains the following chemicals above the de minimus concentration(s) which requires notification to the Environmental Protection Agency (EPA) per 40 CFR 707, subpart D, if any person intends to export:

- None

CountryRegulationAll Components ListedAustraliaAustralian Inventory of Chemical Substances (AICS)Yes

Canada	Canada Domestic Substance List	No
Canada	Canada Non-Domestic Substances List (NDSL)	No
China	China Inventory of Existing Chemical Substances	Yes
EU	EU REACH List of Registered Intermediates	No
EU	EU REACH List of Pre-Registered Substances	Yes
EU	EU REACH List of Registered Substances	No
Japan	Japanese Existing and New Chemical Substances List	No
South Korea	South Korea Existing Chemicals Inventory	No
Philippines	Philippines Inventory of Chemicals and Chemical	No
USA	USA TSCA Inventory list section 8(b)	Yes

- None

## 16. Other Information

Legend

ACGIH American Conference of Governmental Industrial Hygienists, Inc.

ADR/RID European Agreement for transport of dangerous goods by road (ADR) and by rail (RID)

CAS No. Chemical Abstract Service Registry Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act, AKA "Superfund"

DOT Department of Transportation (USA)

HCS OSHA Hazard Communication Standard (29 CFR 1910.1200)

IARC International Agency for Research on Cancer
IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMO International Maritime Organization
IMDG International Maritime Dangerous Goods
MSHA Mine Safety and Health Administration

N.A. Not ApplicableN.D. Not DeterminedN.E. Not Established

NFPA National Fire Protection Association

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration (USA)

PEL Permissible Exposure Limit

SARA Superfund Amendments and Reauthorization Act of 1986 (40 CFR)
STEL Short Term Exposure Limit (15 minute Time Weighted Average)

TDG Canada Transport of Dangerous Goods regulations

TLV Threshold Limit Value TWA Time Weighted Average

WHMIS Canada Workplace Hazardous Materials Information System

### **Hazardous Material Information System (HMIS)**

### **National Fire Protection Association (NFPA)**

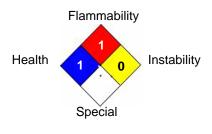


HMIS & NFPA Hazard Rating Legend
\* = Chronic Health Hazard

0 = INSIGNIFICANT 1 = SLIGHT

2 = MODERATE

3 = HIGH



Disclaimer

SDS for: Raven 520 Part B

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Reviewer Revision

Date Prepared: 12/15/2015

SDS for: Raven 520 Part B Page 7 of 7