

Revision Date 16-Jul-2007

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product code** DL3160  
**Product name** OUTLAST  
**Recommended Use** Coating

**Supplier** Drummond American Corporation  
600 Corporate Woods Parkway  
Vernon Hills, IL 60061  
  
(847) 913-9313

**Emergency telephone number** (888) 426-4851

**2. HAZARDS IDENTIFICATION****Emergency Overview**  
Flammable. Irritant.**Color** Black**Odor** Strong**Form** Liquid**Aggravated Medical Conditions** None Known**Principal Routes of Exposure** Inhalation. Skin contact. Ingestion. Eyes.**Potential health effects**

**Eyes** May cause the following effects: Irritation. Redness. Pain. Blurred vision. Tearing. Sensation of seeing halos around lights .

**Skin** Chronic exposure causes drying effect on the skin . Allergic reaction . Redness. Dermatitis. May be absorbed through the skin in harmful amounts.

**Inhalation** May cause allergic respiratory reaction. May cause the following effects. Irritation of the nose or throat. Nausea. Coughing. Shortness of breath. Dizziness. Weakness. Headaches. Drowsiness . Fatigue. Reduced lung function. Chest discomfort. Vomiting. Central nervous system effects. Possible asphyxiation. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Weakness. Drowsiness . Fatigue. Loss of coordination. Central nervous system effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Styrene/butadiene copolymer-crumb rubber	26471-45-4	5-10
Toluene	108-88-3	25-30
Heptanes	142-82-5	20-25
Petroleum Hydrocarbon Resin	68478-07-9	< 1
Odorless Mineral Spirits	8052-41-3	1-5
Xylene (mix)	1330-20-7	0.1-1
Light Aliphatic Naptha Solvent	64742-89-8	0.1-1

### 4. FIRST AID MEASURES

<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
<b>Skin contact</b>	Wash area thoroughly with soap and water. Consult a physician.
<b>Ingestion</b>	Do not induce vomiting. Vomiting may cause aspiration pneumonia. Call a physician immediately.
<b>Inhalation</b>	Remove to fresh air. Administer artificial respiration if not breathing. Call a physician immediately.

### 5. FIRE FIGHTING MEASURES

<b>Flash point °C</b>	-9
<b>Flash point °F</b>	15
<b>Method</b>	Tag closed cup

<b>Autoignition temperature °C</b>	480
<b>Autoignition temperature °F</b>	896

#### **Flammability Limits (% in Air)**

<b>Upper</b>	7.0
<b>Lower</b>	0.7

#### **Suitable extinguishing media**

Foam. Alcohol foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water fog.

#### **Extinguishing media which must NOT be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire .

#### **Special protective equipment for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### **Fire and Explosion Hazards**

Flammable liquid. Vapors may form explosive mixture in air between upper and lower explosive limits which can be ignited by many sources, such as pilot lights, open flames, electrical motors and switches. Empty containers contain residue and/or vapors. Do not weld, cut, pressurize, braze, solder, drill, grind, or expose such containers to heat, sparks, flame, static electricity, or other sources of ignition. They may explode and cause injury or death. Water spray may be ineffective. If water is used, fog nozzles are preferable. Keep containers cool. Use shielding to protect against bursting or venting containers. Keep product and empty container away from heat and sources of ignition.

**Sensitivity to shock**

No information available.

**Sensitivity to static discharge**

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Ensure adequate ventilation. Avoid contact with the skin and the eyes.

**Methods for cleaning up**

Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Dike or dam large spills. Soak up excess with absorbent material. Pick up and transfer to properly labelled containers.

## 7. HANDLING AND STORAGE

**Handling**

Use only according to label directions. Do not smoke. Keep container closed when not in use. Thoroughly wash hands and exposed skin after handling. Avoid using sparking tools. Avoid spontaneous combustion of contaminated rags or other ignitable material.

**Storage**

Store in plastic containers. Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store in unlabeled or mislabeled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Exposure limits**

<b>Chemical Name</b>	<b>OSHA PEL (TWA)</b>	<b>OSHA PEL (Ceiling)</b>	<b>ACGIH OEL (TWA)</b>	<b>ACGIH OEL (STEL)</b>
Toluene	200 ppm	300 ppm	20 ppm	150
Heptanes	2000 mg/m <sup>3</sup> 500 ppm	-	400 ppm	500 ppm
Styrene/butadiene copolymer-crumb rubber	-	-	-	-
Odorless Mineral Spirits	2900 mg/m <sup>3</sup> 500 ppm	-	100 ppm	-
Xylene (mix)	100 ppm 435 mg/m <sup>3</sup>	-	100 ppm	150 ppm
Light Aliphatic Naptha Solvent	-	-	-	-
Petroleum Hydrocarbon Resin	-	-	-	-

### **Ventilation and Environmental Controls**

Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area. Exhaust fans should be explosion proof or set up in a way that explosive concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.

### **Hygiene measures**

Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Avoid contact with skin, eyes and clothing.

### **Personal protective equipment**

#### **Respiratory protection**

Wear a positive-pressure supplied-air respirator with full facepiece. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Wear a NIOSH approved organic vapor/particulate respirator.

#### **Hand Protection**

For prolonged or repeated skin contact, use a chemically resistant glove such as nitrile or neoprene. Wash hands with soap and water after removing gloves. Dry hands thoroughly before re-applying gloves. .

#### **Eye protection**

ANSI approved safety glasses or splash goggles with face shield are recommended.

#### **Skin and body protection**

None necessary under normal conditions

#### **Other Protective Equipment**

A safety shower and eye wash station should be available for emergency use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid	<b>Color</b>	Black
<b>Odor</b>	Strong	<b>Odor Threshold</b>	.17 ppm
<b>pH</b>	Not Applicable	<b>Specific Gravity</b>	1.0105

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Vapor pressure</b>	Not Applicable	<b>Vapor density</b>	Heavier than air. >1 (Air = 1)
<b>Evaporation Rate</b>	>1 (Butyl Acetate = 1)	<b>VOC Content</b>	4.39
<b>Water solubility</b>	Insoluble	<b>Partition Coefficient (n-octanol/water)</b>	Not Applicable
<b>Boiling point/range °C</b>	93-182	<b>Boiling point/range °F</b>	200-360
<b>Melting point/range °C</b>	Not Applicable	<b>Melting point/range °F</b>	Not Applicable
<b>Flash point °C</b>	-9	<b>Flash point °F</b>	15

## 10. STABILITY AND REACTIVITY

### Stability

Stable.

### Conditions to avoid

Addition of acids or bases. Avoid extreme temperatures.

### Incompatibility

Alkalis. Strong acids. Strong oxidizing agents.

### Hazardous Decomposition Products

Carbon oxides. Toxic fumes. Peroxides.

### Polymerization

Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Component Information

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Toluene</i> 108-88-3	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm
<i>Heptanes</i> 142-82-5	103 g/m <sup>3</sup> 3000 mg/kg 5000 mg/kg	103 g/m <sup>3</sup> 3000 mg/kg 5000 mg/kg	103 g/m <sup>3</sup> 3000 mg/kg 5000 mg/kg
<i>Styrene/butadiene copolymer- crumb rubber</i> 26471-45-4	-	-	-
<i>Odorless Mineral Spirits</i> 8052-41-3	-	-	-
<i>Xylene (mix)</i> 1330-20-7	4300 mg/kg 47635 mg/L 5000 ppm 1700 mg/kg	4300 mg/kg 47635 mg/L 5000 ppm 1700 mg/kg	4300 mg/kg 47635 mg/L 5000 ppm 1700 mg/kg

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
Light Aliphatic Naptha Solvent 64742-89-8	3000 mg/kg 5000 mg/kg	3000 mg/kg 5000 mg/kg	3000 mg/kg 5000 mg/kg
Petroleum Hydrocarbon Resin 68478-07-9	-	-	-

**Synergistic Products**

None known

**Specific Hazards**

Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain damage.

**Potential health effects****Sensitization**

None known

**Chronic toxicity**

See Section 2 .

**Mutagenic effects**

None known

**Teratogenic effects**

None known

**Reproductive toxicity**

None known

**Target Organ Effects**

Brain. Nervous system.

**Carcinogenic effects**

Did not show carcinogenic effects in animal experiments.

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Toluene	A4 - Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
Heptanes	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Styrene/butadiene copolymer-crumbrubber	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Odorless Mineral Spirits	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Xylene (mix)	A4 - Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
Light Aliphatic Naptha Solvent	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Petroleum Hydrocarbon Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

Toluene

**Microtox Data***Photobacterium phosphoreum* EC50=19.7 mg/L (30 min)

**Water Flea Data***Daphnia magna* EC50=11.3 mg/L (48 h)

water flea EC50=11.3 mg/L (48 h)

water flea EC50=310 mg/L (48 h)

Heptanes

**Water Flea Data***Daphnia magna* EC50>10 mg/L (24 h)

Xylene (mix)

**Microtox Data***Photobacterium phosphoreum* EC50=0.0084 mg/L (24 h)**Water Flea Data***Gammarus lacustris* LC50=0.6 mg/L (48 h)

water flea EC50=3.82 mg/L (48 h)

**13. DISPOSAL CONSIDERATIONS****Waste from residues / unused products**

Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations. Prevent waste from contaminating surrounding environment.

**14. TRANSPORT INFORMATION****DOT**

UN1139 Coating solution, Class 3, PG II

**TDG**

UN1139 COATING SOLUTION(Toluene/Heptane), Class 3, PG II

**IMDG/IMO**

UN1139 COATING SOLUTION, Class 3, PG II

**IATA**

UN1139 Coating solution, Class 3, PG II

**MEX**

UN1139 SOLUCIONES PARA REVESTIMIENTOS,3, II

**15. REGULATORY INFORMATION**

Chemical Name	US EPA SARA 313 Emission Reporting
Toluene	Listed
Xylene (mix)	Listed

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Toluene	Not Listed	Listed	Developmental
Heptanes	Listed	Listed	Not Listed
Styrene/butadiene copolymer-crumb rubber	Not Listed	Not Listed	Not Listed
Odorless Mineral Spirits	Not Listed	Listed	Not Listed
Xylene (mix)	Not Listed	Listed	Not Listed
Light Aliphatic Naptha Solvent	Not Listed	Not Listed	Not Listed
Petroleum Hydrocarbon Resin	Not Listed	Not Listed	Not Listed

## Toluene-Reproductive Hazard

Chemical Name	EINECS	DSL	NDSL	TSCA
Toluene	X	X	-	X
Heptanes	X	X	-	X
Styrene/butadiene copolymer-crumb rubber	-	X	-	X
Odorless Mineral Spirits	X	X	-	X
Xylene (mix)	X	X	-	X
Light Aliphatic Naptha Solvent	X	X	-	X
Petroleum Hydrocarbon Resin	-	X	-	X

**CPRC**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

## 16. OTHER INFORMATION

NFPA		HMIS	
Health	-	Health	1
Flammability	-	Flammability	2
Reactivity	-	Physical Hazard	0

**Prepared By**

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.