

**1. Identification**

<b>Product identifier</b>	<b>Semi-Volatiles Mixture #3 - 8250A</b>	
<b>Other means of identification</b>		
<b>Item</b>	M-SV82503U4	
<b>Recommended use</b>	For Laboratory Use Only	
<b>Recommended restrictions</b>	None known.	
<b>Manufacturer/Importer/Supplier/Distributor information</b>		
<b>Manufacturer</b>		
<b>Company name</b>	Chem Service, Inc.	
<b>Address</b>	660 Tower Lane West Chester, PA 19380 United States	
<b>Telephone</b>	Toll Free	800-452-9994
	Direct	610-692-3026
<b>Website</b>	www.chemservice.com	
<b>E-mail</b>	info@chemservice.com	
<b>Emergency phone number</b>	Chemtrec US	800-424-9300
	Chemtrec outside US	+1 703-527-3887

**2. Hazard(s) identification**

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 1
	Carcinogenicity	Category 1
	Reproductive toxicity	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Highly flammable liquid and vapor. Harmful if swallowed. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - 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. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

<b>Response</b>	If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.
<b>Storage</b>	Store in a well-ventilated place. Keep cool. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	99.8% of the mixture consists of component(s) of unknown acute oral toxicity. 99.6% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Toluene		108-88-3	99
1,12-Benzoperylene		191-24-2	0.1
1,2:5,6-Dibenzanthracene		53-70-3	0.1
3-Methylcholanthrene		56-49-5	0.1
7,12-Dimethylbenz(a)anthracene		57-97-6	0.1
Benzo(a)pyrene		50-32-8	0.1
Benzo(b)fluoranthene		205-99-2	0.1
Benzo(k)fluoranthene		207-08-9	0.1
Dibenz(a,j)acridine		224-42-0	0.1
Dicapryl phthalate		117-84-0	0.1
Indeno(1,2,3-C,D)pyrene		193-39-5	0.1

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction. Dermatitis. Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Highly flammable liquid and vapor.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. Handling and storage

**Precautions for safe handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Toluene (CAS 108-88-3)	TWA	20 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Toluene (CAS 108-88-3)	STEL	560 mg/m <sup>3</sup>
		150 ppm
	TWA	375 mg/m <sup>3</sup>
		100 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

\* - For sampling details, please see the source document.

**Exposure guidelines****US - California OELs: Skin designation**

Toluene (CAS 108-88-3) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

Toluene (CAS 108-88-3) Skin designation applies.

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Eye wash fountain and emergency showers are recommended.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**9. Physical and chemical properties****Appearance**

**Physical state** Liquid.

**Form** Liquid.

**Color** Not available.

**Odor** Not available.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -138.82 °F (-94.9 °C) estimated

**Initial boiling point and boiling range** 231.08 °F (110.6 °C) estimated

**Flash point** 40.0 °F (4.4 °C) estimated

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	37.86 hPa estimated
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	896 °F (480 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	0.86495 g/cm3 estimated
<b>Explosive properties</b>	Not explosive.
<b>Flammability class</b>	Flammable IB estimated
<b>Oxidizing properties</b>	Not oxidizing.
<b>Percent volatile</b>	99 % estimated
<b>Specific gravity</b>	0.87 estimated
<b>VOC (Weight %)</b>	99 % estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

**Acute toxicity** Harmful if swallowed. May cause an allergic skin reaction.

Components	Species	Test Results
Benzo(a)pyrene (CAS 50-32-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
	Rat	> 2000 mg/kg
<b>Oral</b>		
LD50	Mouse	433 mg/kg
	Rat	725 mg/kg

Components	Species	Test Results
Dicapryl phthalate (CAS 117-84-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Guinea pig	4900 mg/kg
<b>Oral</b>		
LD50	Mouse	13000 mg/kg
	Rat	53700 mg/kg
Toluene (CAS 108-88-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg 14.1 ml/kg
<b>Inhalation</b>		
LC50	Mouse	6405 - 7436 ppm, 6 Hours 5320 ppm, 8 Hours 400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours 5879 - 6281 ppm, 6 Hours 12.5 - 28.8 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	2.6 g/kg
<b>Other</b>		
LD50	Mouse	59 mg/kg
	Rat	1332 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	May cause genetic defects.
<b>Carcinogenicity</b>	May cause cancer.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

1,12-Benzoperylene (CAS 191-24-2)	3 Not classifiable as to carcinogenicity to humans.
1,2:5,6-Dibenzanthracene (CAS 53-70-3)	2A Probably carcinogenic to humans.
Benzo(a)pyrene (CAS 50-32-8)	1 Carcinogenic to humans.
Benzo(b)fluoranthene (CAS 205-99-2)	2B Possibly carcinogenic to humans.
Benzo(k)fluoranthene (CAS 207-08-9)	2B Possibly carcinogenic to humans.
Dibenz(a,j)acridine (CAS 224-42-0)	2A Probably carcinogenic to humans.
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)	2B Possibly carcinogenic to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.

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

1,2:5,6-Dibenzanthracene (CAS 53-70-3)	Reasonably Anticipated to be a Human Carcinogen.
Benzo(a)pyrene (CAS 50-32-8)	Reasonably Anticipated to be a Human Carcinogen.
Benzo(b)fluoranthene (CAS 205-99-2)	Reasonably Anticipated to be a Human Carcinogen.
Benzo(k)fluoranthene (CAS 207-08-9)	Reasonably Anticipated to be a Human Carcinogen.
Dibenz(a,j)acridine (CAS 224-42-0)	Reasonably Anticipated to be a Human Carcinogen.
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)	Reasonably Anticipated to be a Human Carcinogen.

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

Not listed.

<b>Reproductive toxicity</b>	May damage fertility or the unborn child.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components	Species	Test Results	
Toluene (CAS 108-88-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon, silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

1,12-Benzoperylene	6.63
1,2:5,6-Dibenzanthracene	6.5
3-Methylcholanthrene	6.42
7,12-Dimethylbenz(a)anthracene	5.8
Benzo(a)pyrene	5.97
Benzo(b)fluoranthene	6.6
Benzo(k)fluoranthene	6.84
Dicapryl phthalate	8.1
Toluene	2.73

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### DOT

<b>UN number</b>	UN1294
<b>UN proper shipping name</b>	Toluene, MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3

<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	IB2, T4, TP1
<b>Packaging exceptions</b>	150
<b>Packaging non bulk</b>	202
<b>Packaging bulk</b>	242

**IATA**

<b>UN number</b>	UN1294
<b>UN proper shipping name</b>	Toluene
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	3L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

**IMDG**

<b>UN number</b>	UN1294
<b>UN proper shipping name</b>	TOLUENE
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-E, S-D
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**DOT**



**IATA; IMDG**





## Marine pollutant



### General information

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

## 15. Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
One or more components are not listed on TSCA.

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

3-Methylcholanthrene (CAS 56-49-5) 1.0 % One-Time Export Notification only.

#### TSCA Chemical Action Plans, Chemicals of Concern

Dicapryl phthalate (CAS 117-84-0) Phthalates Action Plan

#### CERCLA Hazardous Substance List (40 CFR 302.4)

1,12-Benzoperylene (CAS 191-24-2)	Listed.
1,2:5,6-Dibenzanthracene (CAS 53-70-3)	Listed.
3-Methylcholanthrene (CAS 56-49-5)	Listed.
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)	Listed.
Benzo(a)pyrene (CAS 50-32-8)	Listed.
Benzo(b)fluoranthene (CAS 205-99-2)	Listed.
Benzo(k)fluoranthene (CAS 207-08-9)	Listed.
Dicapryl phthalate (CAS 117-84-0)	Listed.
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)	Listed.
Toluene (CAS 108-88-3)	Listed.

#### SARA 304 Emergency release notification

Not regulated.

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

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard categories</b>	Immediate Hazard - Yes
	Delayed Hazard - Yes
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Toluene	108-88-3	99
1,2:5,6-Dibenzanthracene	53-70-3	0.1
7,12-Dimethylbenz(a)anthracene	57-97-6	0.1
Benzo(a)pyrene	50-32-8	0.1
Benzo(b)fluoranthene	205-99-2	0.1
Benzo(k)fluoranthene	207-08-9	0.1
Dibenz(a,j)acridine	224-42-0	0.1
Indeno(1,2,3-C,D)pyrene	193-39-5	0.1

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

1,12-Benzoperylene (CAS 191-24-2)  
1,2:5,6-Dibenzanthracene (CAS 53-70-3)

3-Methylcholanthrene (CAS 56-49-5)  
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)  
Benzo(a)pyrene (CAS 50-32-8)  
Benzo(b)fluoranthene (CAS 205-99-2)  
Benzo(k)fluoranthene (CAS 207-08-9)  
Dibenz(a,j)acridine (CAS 224-42-0)  
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)  
Toluene (CAS 108-88-3)

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

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Toluene (CAS 108-88-3) 6594

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Toluene (CAS 108-88-3) 594

**US state regulations**

**US - New Jersey RTK - Substances: Listed substance**

1,12-Benzoperylene (CAS 191-24-2)  
1,2:5,6-Dibenzanthracene (CAS 53-70-3)  
3-Methylcholanthrene (CAS 56-49-5)  
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)  
Benzo(a)pyrene (CAS 50-32-8)  
Benzo(b)fluoranthene (CAS 205-99-2)  
Benzo(k)fluoranthene (CAS 207-08-9)  
Dibenz(a,j)acridine (CAS 224-42-0)  
Dicapryl phthalate (CAS 117-84-0)  
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)  
Toluene (CAS 108-88-3)

**US - Pennsylvania RTK - Hazardous Substances: Special hazard**

1,2:5,6-Dibenzanthracene (CAS 53-70-3)  
3-Methylcholanthrene (CAS 56-49-5)  
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)  
Benzo(a)pyrene (CAS 50-32-8)  
Benzo(b)fluoranthene (CAS 205-99-2)  
Benzo(k)fluoranthene (CAS 207-08-9)  
Dibenz(a,j)acridine (CAS 224-42-0)  
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

1,12-Benzoperylene (CAS 191-24-2)  
1,2:5,6-Dibenzanthracene (CAS 53-70-3)  
3-Methylcholanthrene (CAS 56-49-5)  
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)  
Benzo(a)pyrene (CAS 50-32-8)  
Benzo(b)fluoranthene (CAS 205-99-2)  
Benzo(k)fluoranthene (CAS 207-08-9)  
Dibenz(a,j)acridine (CAS 224-42-0)  
Dicapryl phthalate (CAS 117-84-0)  
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)  
Toluene (CAS 108-88-3)

**US. Massachusetts RTK - Substance List**

1,12-Benzoperylene (CAS 191-24-2)  
1,2:5,6-Dibenzanthracene (CAS 53-70-3)  
3-Methylcholanthrene (CAS 56-49-5)  
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)  
Benzo(a)pyrene (CAS 50-32-8)

Benzo(b)fluoranthene (CAS 205-99-2)  
Benzo(k)fluoranthene (CAS 207-08-9)  
Dibenz(a,j)acridine (CAS 224-42-0)  
Dicapryl phthalate (CAS 117-84-0)  
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)  
Toluene (CAS 108-88-3)

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

1,12-Benzoperylene (CAS 191-24-2)  
1,2:5,6-Dibenzanthracene (CAS 53-70-3)  
3-Methylcholanthrene (CAS 56-49-5)  
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)  
Benzo(a)pyrene (CAS 50-32-8)  
Benzo(b)fluoranthene (CAS 205-99-2)  
Benzo(k)fluoranthene (CAS 207-08-9)  
Dibenz(a,j)acridine (CAS 224-42-0)  
Dicapryl phthalate (CAS 117-84-0)  
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)  
Toluene (CAS 108-88-3)

**US. Pennsylvania RTK - Hazardous Substances**

1,12-Benzoperylene (CAS 191-24-2)  
1,2:5,6-Dibenzanthracene (CAS 53-70-3)  
3-Methylcholanthrene (CAS 56-49-5)  
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)  
Benzo(a)pyrene (CAS 50-32-8)  
Benzo(b)fluoranthene (CAS 205-99-2)  
Benzo(k)fluoranthene (CAS 207-08-9)  
Dibenz(a,j)acridine (CAS 224-42-0)  
Dicapryl phthalate (CAS 117-84-0)  
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)  
Toluene (CAS 108-88-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**

1,12-Benzoperylene (CAS 191-24-2)  
1,2:5,6-Dibenzanthracene (CAS 53-70-3)  
3-Methylcholanthrene (CAS 56-49-5)  
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)  
Benzo(a)pyrene (CAS 50-32-8)  
Benzo(b)fluoranthene (CAS 205-99-2)  
Benzo(k)fluoranthene (CAS 207-08-9)  
Dibenz(a,j)acridine (CAS 224-42-0)  
Dicapryl phthalate (CAS 117-84-0)  
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)  
Toluene (CAS 108-88-3)

**US. Rhode Island RTK**

1,2:5,6-Dibenzanthracene (CAS 53-70-3)  
Benzo(a)pyrene (CAS 50-32-8)  
Benzo(b)fluoranthene (CAS 205-99-2)  
Dibenz(a,j)acridine (CAS 224-42-0)  
Toluene (CAS 108-88-3)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

1,2:5,6-Dibenzanthracene (CAS 53-70-3)	Listed: January 1, 1988
3-Methylcholanthrene (CAS 56-49-5)	Listed: January 1, 1990
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)	Listed: January 1, 1990
Benzo(a)pyrene (CAS 50-32-8)	Listed: July 1, 1987
Benzo(b)fluoranthene (CAS 205-99-2)	Listed: July 1, 1987
Benzo(k)fluoranthene (CAS 207-08-9)	Listed: July 1, 1987
Dibenz(a,j)acridine (CAS 224-42-0)	Listed: January 1, 1988
Indeno(1,2,3-C,D)pyrene (CAS 193-39-5)	Listed: January 1, 1988

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

Toluene (CAS 108-88-3)	Listed: January 1, 1991
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## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

<b>Issue date</b>	11-06-2014
<b>Revision date</b>	12-19-2016
<b>Version #</b>	03
<b>NFPA ratings</b>	Health: 2 Flammability: 3 Instability: 0

### Disclaimer

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

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### Revision Information

This document has undergone significant changes and should be reviewed in its entirety.