

## 1. Identification

<b>Product identifier</b>	<b>Semi-Volatiles Mixture #2 - 8250A</b>	
<b>Other means of identification</b>		
<b>Item</b>	M-SV82502X4	
<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>	Not classified.	
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
	Carcinogenicity	Category 1A
	Reproductive toxicity	Category 1
	Specific target organ toxicity, repeated exposure	Category 2
<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.	

### Label elements



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. 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. Do not breathe 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: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.
<b>Storage</b>	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>	0.3% of the mixture consists of component(s) of unknown acute oral toxicity. 99.3% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.3% 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	%
Methylene chloride	DICHLOROMETHANE; METHYLENE DICHLORIDE	75-09-2	>99
1,2-Benzanthracene		56-55-3	0.1
3,3'-Dichlorobenzidine		91-94-1	0.1
Benzidine		92-87-5	0.1
Bis(2-ethylhexyl)phthalate		117-81-7	0.1
Butyl benzyl phthalate		85-68-7	0.1
Chrysene		218-01-9	0.1
Methyl Yellow		60-11-7	0.1
Pyrene		129-00-0	0.1

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 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. Take off contaminated clothing and wash before reuse.
<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. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Most important symptoms/effects, acute and delayed</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. May cause redness and pain. Prolonged exposure may cause chronic effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 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>	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>	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>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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

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. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: 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. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 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 breathe mist or vapor. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

### Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

Components	Type	Value
Methylene chloride (CAS 75-09-2)	STEL	125 ppm
	TWA	25 ppm

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)	PEL	5 mg/m3

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)	TWA	5 mg/m3
Methylene chloride (CAS 75-09-2)	TWA	50 ppm

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

Components	Type	Value
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)	STEL	10 mg/m3
	TWA	5 mg/m3

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Methylene chloride (CAS 75-09-2)	0.3 mg/l	Dichloromethane	Urine	*

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

### Exposure guidelines

#### US - California OELs: Skin designation

3,3'-Dichlorobenzidine (CAS 91-94-1)	Can be absorbed through the skin.
Benidine (CAS 92-87-5)	Can be absorbed through the skin.

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

3,3'-Dichlorobenzidine (CAS 91-94-1)  
Benzidine (CAS 92-87-5)

Skin designation applies.  
Skin designation applies.

**US ACGIH Threshold Limit Values: Skin designation**

3,3'-Dichlorobenzidine (CAS 91-94-1)  
Benzidine (CAS 92-87-5)

Can be absorbed through the skin.  
Can be absorbed through the skin.

**Appropriate engineering controls**

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 wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection****Hand protection**

Wear appropriate chemical resistant gloves.

**Other**

Wear appropriate chemical resistant clothing.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

When using, do not eat, drink or smoke. 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**

-139 °F (-95 °C) estimated

**Initial boiling point and boiling range**

103.55 °F (39.75 °C) estimated

**Flash point**

Not available.

**Evaporation rate**

Not available.

**Flammability (solid, gas)**

Not available.

**Upper/lower flammability or explosive limits****Flammability limit - lower (%)**

15.5 % estimated

**Flammability limit - upper (%)**

66.4 % estimated

**Explosive limit - lower (%)**

Not available.

**Explosive limit - upper (%)**

Not available.

**Vapor pressure**

579.97 hPa estimated

**Vapor density**

Not available.

**Relative density**

Not available.

**Solubility(ies)****Solubility (water)**

Not available.

**Partition coefficient (n-octanol/water)**

Not available.

**Auto-ignition temperature**

1033 °F (556.11 °C) estimated

**Decomposition temperature**

Not available.

**Viscosity**

Not available.

**Other information****Density**

1.324664 g/cm3 estimated

**Percent volatile**

99.3 % estimated

Specific gravity 1.32 estimated  
 VOC (Weight %) 99.3 % estimated

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.  
**Chemical stability** Material is stable under normal conditions.  
**Possibility of hazardous reactions** Hazardous polymerization does not occur.  
**Conditions to avoid** Contact with incompatible materials.  
**Incompatible materials** Strong oxidizing agents.  
**Hazardous decomposition products** No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

**Ingestion** Harmful if swallowed.  
**Inhalation** Prolonged inhalation may be harmful. May cause damage to organs by inhalation.  
**Skin contact** Causes skin irritation. May cause an allergic skin reaction.  
**Eye contact** Causes serious eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis. Rash.

### Information on toxicological effects

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

Components	Species	Test Results
3,3'-Dichlorobenzidine (CAS 91-94-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	8 g/kg
<i>Oral</i>		
LD50	Mouse	352 mg/kg
	Rat	3.82 g/kg
Benzidine (CAS 92-87-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	214 mg/kg
	Rat	309 mg/kg
<i>Other</i>		
LD50	Mouse	110 mg/kg
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Guinea pig	10 g/kg
	Rabbit	25 g/kg
		20 ml/kg
<i>Inhalation</i>		
LC50	Rat	> 600 mg/m <sup>3</sup>
<i>Oral</i>		
LD50	Guinea pig	26.3 g/kg
	Mouse	> 10000 mg/kg
	Rabbit	33900 mg/kg
		33.9 g/kg
	Rat	9800 mg/kg
<i>Other</i>		
LD50	Mouse	1060 mg/kg

Components	Species	Test Results
	Rat	> 7.5 mg/kg
Butyl benzyl phthalate (CAS 85-68-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Mouse	6700 mg/kg
	Rabbit	> 10000 mg/kg
	Rat	6700 mg/kg
<i>Oral</i>		
LD50	Mouse	4170 mg/kg
	Rat	2330 mg/kg
<i>Other</i>		
LD50	Mouse	3160 mg/kg
Chrysene (CAS 218-01-9)		
<b>Acute</b>		
<i>Other</i>		
LD50	Mouse	> 320 mg/kg
TDL0	Mouse	200 mg/kg
Methylene chloride (CAS 75-09-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Guinea pig	11600 ppm, 6 Hours 40.2 mg/l, 6 Hours
	Mouse	14400 ppm, 7 Hours 51.5 mg/l, 2 Hours 49.1 mg/l, 6 Hours 49 mg/l, 7 Hours
	Rat	2000 mg/l, 15 Minutes 88 mg/l, 900 Days 79 mg/l, 2 Hours 52 mg/l, 6 Hours
LD50	Mouse	16000 ppm, 7 Hours
<i>Oral</i>		
LD50	Rat	1600 mg/kg
<i>Other</i>		
LD50	Mouse	437 mg/kg

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

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	May cause cancer.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

1,2-Benzanthracene (CAS 56-55-3)	2B Possibly carcinogenic to humans.
3,3'-Dichlorobenzidine (CAS 91-94-1)	2B Possibly carcinogenic to humans.
Benzidine (CAS 92-87-5)	1 Carcinogenic to humans.
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)	2B Possibly carcinogenic to humans.
Butyl benzyl phthalate (CAS 85-68-7)	3 Not classifiable as to carcinogenicity to humans.

Chrysene (CAS 218-01-9)	2B Possibly carcinogenic to humans.
Methyl Yellow (CAS 60-11-7)	2B Possibly carcinogenic to humans.
Methylene chloride (CAS 75-09-2)	2B Possibly carcinogenic to humans.
Pyrene (CAS 129-00-0)	3 Not classifiable as to carcinogenicity to humans.

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

1,2-Benzanthracene (CAS 56-55-3)	Reasonably Anticipated to be a Human Carcinogen.
3,3'-Dichlorobenzidine (CAS 91-94-1)	Reasonably Anticipated to be a Human Carcinogen.
Benzidine (CAS 92-87-5)	Known To Be Human Carcinogen.
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)	Reasonably Anticipated to be a Human Carcinogen.
Methyl Yellow (CAS 60-11-7)	Reasonably Anticipated to be a Human Carcinogen.
Methylene chloride (CAS 75-09-2)	Reasonably Anticipated to be a Human Carcinogen.

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

3,3'-Dichlorobenzidine (CAS 91-94-1)	Cancer
Benzidine (CAS 92-87-5)	Cancer
Methyl Yellow (CAS 60-11-7)	Cancer
Methylene chloride (CAS 75-09-2)	Cancer

**Reproductive toxicity** May damage fertility or the unborn child.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not available.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure.

**12. Ecological information**

**Ecotoxicity** Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components	Species	Test Results
3,3'-Dichlorobenzidine (CAS 91-94-1)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) 0.81 - 1.36 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 0.82 - 1.34 mg/l, 96 hours
Benzidine (CAS 92-87-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) 0.2 - 1.5 mg/l, 48 hours
Fish	LC50	Lake trout, siscowet (Salvelinus namaycush) 4.35 mg/l, 96 hours
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia pulex) 0.133 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus) > 0.2 mg/l, 96 hours > 0.2 mg/l, 96 hours
Butyl benzyl phthalate (CAS 85-68-7)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) > 0.96 mg/l, 48 hours
Fish	LC50	Shiner perch (Cymatogaster aggregata) 0.47 - 0.56 mg/l, 96 hours
Methylene chloride (CAS 75-09-2)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) 1250 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 140.8 - 277.8 mg/l, 96 hours
Pyrene (CAS 129-00-0)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss) > 2 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** No data available.

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

1,2-Benzanthracene	5.79
3,3'-Dichlorobenzidine	3.51
Benzidine	1.34
Bis(2-ethylhexyl)phthalate	7.6
Butyl benzyl phthalate	4.91
Chrysene	5.73
Methyl Yellow	4.58
Methylene chloride	1.25
Pyrene	4.88

**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. This material and its container must be disposed of as hazardous waste. 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.

**US RCRA Hazardous Waste U List: Reference**

1,2-Benzanthracene (CAS 56-55-3)	U018
3,3'-Dichlorobenzidine (CAS 91-94-1)	U073
Benzidine (CAS 92-87-5)	U021
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)	U028
Chrysene (CAS 218-01-9)	U050
Methyl Yellow (CAS 60-11-7)	U093
Methylene chloride (CAS 75-09-2)	U080

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

**14. Transport information****DOT**

<b>UN number</b>	UN1593
<b>UN proper shipping name</b>	Dichloromethane, solution, MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	6.1(PGIII)
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	6.1
<b>Packing group</b>	III
<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>	IB3, IP8, N36, T7, TP2
<b>Packaging exceptions</b>	153
<b>Packaging non bulk</b>	203
<b>Packaging bulk</b>	241

**IATA**

<b>UN number</b>	UN1593
<b>UN proper shipping name</b>	Dichloromethane solution
<b>Transport hazard class(es)</b>	
<b>Class</b>	6.1(PGIII)
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	6L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.



#### Other information

Passenger and cargo aircraft Allowed.  
Cargo aircraft only Allowed.

#### IMDG

UN number UN1593  
UN proper shipping name DICHLOROMETHANE SOLUTION, MARINE POLLUTANT  
Transport hazard class(es)  
Class 6.1(PGIII)  
Subsidiary risk -  
Packing group III  
Environmental hazards  
Marine pollutant Yes  
EmS F-A, S-A  
Special precautions for user 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 available.

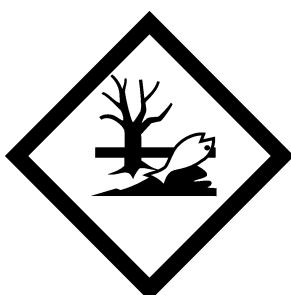
#### DOT



#### IATA; IMDG



#### 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.  
All components are on the U.S. EPA TSCA Inventory List.

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

Benzidine (CAS 92-87-5) 0.1 % One-Time Export Notification only.

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

1,2-Benzanthracene (CAS 56-55-3) Listed.  
3,3'-Dichlorobenzidine (CAS 91-94-1) Listed.  
Benzidine (CAS 92-87-5) Listed.  
Bis(2-ethylhexyl)phthalate (CAS 117-81-7) Listed.  
Butyl benzyl phthalate (CAS 85-68-7) Listed.

Chrysene (CAS 218-01-9)	Listed.
Methyl Yellow (CAS 60-11-7)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.
Pyrene (CAS 129-00-0)	Listed.

**SARA 304 Emergency release notification**

Pyrene (CAS 129-00-0)	5000 LBS
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**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

3,3'-Dichlorobenzidine (CAS 91-94-1)	Cancer
Benzidine (CAS 92-87-5)	Cancer
Methyl Yellow (CAS 60-11-7)	Cancer
Methylene chloride (CAS 75-09-2)	Cancer
3,3'-Dichlorobenzidine (CAS 91-94-1)	Skin sensitization
Benzidine (CAS 92-87-5)	Acute toxicity
Methyl Yellow (CAS 60-11-7)	Skin
Methylene chloride (CAS 75-09-2)	Heart
Methyl Yellow (CAS 60-11-7)	respiratory tract irritation
Methylene chloride (CAS 75-09-2)	Central nervous system
	Liver
	Skin irritation
	Eye irritation

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

**Hazard categories**

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Pyrene	129-00-0	5000		1000 lbs	10000 lbs

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Methylene chloride	75-09-2	>99
1,2-Benzanthracene	56-55-3	0.1
3,3'-Dichlorobenzidine	91-94-1	0.1
Benzidine	92-87-5	0.1
Bis(2-ethylhexyl)phthalate	117-81-7	0.1
Methyl Yellow	60-11-7	0.1

**Other federal regulations**

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

1,2-Benzanthracene (CAS 56-55-3)  
 3,3'-Dichlorobenzidine (CAS 91-94-1)  
 Benzidine (CAS 92-87-5)  
 Bis(2-ethylhexyl)phthalate (CAS 117-81-7)  
 Chrysene (CAS 218-01-9)  
 Methyl Yellow (CAS 60-11-7)  
 Methylene chloride (CAS 75-09-2)  
 Pyrene (CAS 129-00-0)

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

Not regulated.

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

**US state regulations**

**US. Massachusetts RTK - Substance List**

1,2-Benzanthracene (CAS 56-55-3)  
 3,3'-Dichlorobenzidine (CAS 91-94-1)  
 Benzidine (CAS 92-87-5)  
 Bis(2-ethylhexyl)phthalate (CAS 117-81-7)  
 Butyl benzyl phthalate (CAS 85-68-7)  
 Chrysene (CAS 218-01-9)  
 Methyl Yellow (CAS 60-11-7)  
 Methylene chloride (CAS 75-09-2)

Pyrene (CAS 129-00-0)

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

1,2-Benzanthracene (CAS 56-55-3)	500 LBS
3,3'-Dichlorobenzidine (CAS 91-94-1)	500 LBS
Benzidine (CAS 92-87-5)	500 LBS
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)	500 LBS
Butyl benzyl phthalate (CAS 85-68-7)	500 LBS
Chrysene (CAS 218-01-9)	500 LBS
Methyl Yellow (CAS 60-11-7)	500 LBS
Methylene chloride (CAS 75-09-2)	500 LBS
Pyrene (CAS 129-00-0)	500 LBS

#### US. Pennsylvania RTK - Hazardous Substances

1,2-Benzanthracene (CAS 56-55-3)
3,3'-Dichlorobenzidine (CAS 91-94-1)
Benzidine (CAS 92-87-5)
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)
Butyl benzyl phthalate (CAS 85-68-7)
Chrysene (CAS 218-01-9)
Methyl Yellow (CAS 60-11-7)
Methylene chloride (CAS 75-09-2)
Pyrene (CAS 129-00-0)

#### US. Rhode Island RTK

1,2-Benzanthracene (CAS 56-55-3)
3,3'-Dichlorobenzidine (CAS 91-94-1)
Benzidine (CAS 92-87-5)
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)
Butyl benzyl phthalate (CAS 85-68-7)
Chrysene (CAS 218-01-9)
Methyl Yellow (CAS 60-11-7)
Methylene chloride (CAS 75-09-2)
Pyrene (CAS 129-00-0)

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

1,2-Benzanthracene (CAS 56-55-3)	Listed: July 1, 1987
3,3'-Dichlorobenzidine (CAS 91-94-1)	Listed: October 1, 1987
Benzidine (CAS 92-87-5)	Listed: February 27, 1987
Bis(2-ethylhexyl)phthalate (CAS 117-81-7)	Listed: January 1, 1988
Chrysene (CAS 218-01-9)	Listed: January 1, 1990
Methyl Yellow (CAS 60-11-7)	Listed: January 1, 1988
Methylene chloride (CAS 75-09-2)	Listed: April 1, 1988

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

Bis(2-ethylhexyl)phthalate (CAS 117-81-7)	Listed: October 24, 2003
Butyl benzyl phthalate (CAS 85-68-7)	Listed: December 2, 2005

##### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Bis(2-ethylhexyl)phthalate (CAS 117-81-7)	Listed: October 24, 2003
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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)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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

Issue date	10-23-2014
Version #	01
NFPA ratings	Health: 2 Flammability: 1 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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