

## 1. Identification

<b>Product identifier</b>	<b>Semi-Volatiles Mixture #6 - 8250A</b>	
<b>Other means of identification</b>		
<b>Item</b>	M-SV82506X4	
<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
	Acute toxicity, dermal	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 1A
	Reproductive toxicity (fertility)	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause cancer. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful 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. 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. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

<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>	0.6% of the mixture consists of component(s) of unknown acute oral toxicity. 1.2% of the mixture consists of component(s) of unknown acute dermal toxicity. 98% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 97.9% 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	90 - 100
1,2,4,5-Tetrachlorobenzene		95-94-3	0.1
1-Chloronaphthalene		90-13-1	0.1
2,3,4,6-Tetrachlorophenol		58-90-2	0.1
2,4,5-Trichlorophenol		95-95-4	0.1
2,4,6-Trichlorophenol		88-06-2	0.1
2,4-Dinitrophenol (min 15wt% water)		51-28-5	0.1
2,4-Dinitrotoluene		121-14-2	0.1
2,6-Dinitrotoluene		606-20-2	0.1
2-Chloronaphthalene		91-58-7	0.1
4-Chlorophenyl phenyl ether		7005-72-3	0.1
4-Nitrophenol		100-02-7	0.1
Acenaphthene		83-32-9	0.1
Acenaphthylene		208-96-8	0.1
a-Naphthylamine		134-32-7	0.1
b-Naphthylamine		91-59-8	0.1
Dibenzofuran		132-64-9	0.1
Diethyl phthalate		84-66-2	0.1
Dimethyl phthalate		131-11-3	0.1
Fluorene		86-73-7	0.1
m-Nitroaniline		99-09-2	0.1
o-Nitroaniline		88-74-4	0.1
Pentachlorobenzene		608-93-5	0.1
p-Nitroaniline		100-01-6	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>	Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. 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 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.

**General information** 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

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions** Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** 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** 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. Prevent entry into waterways, sewer, basements or confined areas. 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. Wash contaminated clothing before reuse. 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
2,4-Dinitrotoluene (CAS 121-14-2)	PEL	1.5 mg/m <sup>3</sup>
2,6-Dinitrotoluene (CAS 606-20-2)	PEL	1.5 mg/m <sup>3</sup>
4-Chlorophenyl phenyl ether (CAS 7005-72-3)	PEL	0.5 mg/m <sup>3</sup>
Dimethyl phthalate (CAS 131-11-3)	PEL	5 mg/m <sup>3</sup>
p-Nitroaniline (CAS 100-01-6)	PEL	6 mg/m <sup>3</sup>
		1 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
2,4-Dinitrotoluene (CAS 121-14-2)	TWA	0.2 mg/m3
2,6-Dinitrotoluene (CAS 606-20-2)	TWA	0.2 mg/m3
Diethyl phthalate (CAS 84-66-2)	TWA	5 mg/m3
Dimethyl phthalate (CAS 131-11-3)	TWA	5 mg/m3
Methylene chloride (CAS 75-09-2)	TWA	50 ppm
p-Nitroaniline (CAS 100-01-6)	TWA	3 mg/m3

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

Components	Type	Value
2,4-Dinitrotoluene (CAS 121-14-2)	TWA	1.5 mg/m3
2,6-Dinitrotoluene (CAS 606-20-2)	TWA	1.5 mg/m3
4-Chlorophenyl phenyl ether (CAS 7005-72-3)	TWA	0.5 mg/m3
Diethyl phthalate (CAS 84-66-2)	TWA	5 mg/m3
Dimethyl phthalate (CAS 131-11-3)	TWA	5 mg/m3
p-Nitroaniline (CAS 100-01-6)	TWA	3 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**

2,4-Dinitrotoluene (CAS 121-14-2)	Can be absorbed through the skin.
2,6-Dinitrotoluene (CAS 606-20-2)	Can be absorbed through the skin.
p-Nitroaniline (CAS 100-01-6)	Can be absorbed through the skin.

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

2,4-Dinitrotoluene (CAS 121-14-2)	Skin designation applies.
2,6-Dinitrotoluene (CAS 606-20-2)	Skin designation applies.
p-Nitroaniline (CAS 100-01-6)	Skin designation applies.

**US - Tennessee OELs: Skin designation**

2,4-Dinitrotoluene (CAS 121-14-2)	Can be absorbed through the skin.
2,6-Dinitrotoluene (CAS 606-20-2)	Can be absorbed through the skin.
p-Nitroaniline (CAS 100-01-6)	Can be absorbed through the skin.

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

2,4-Dinitrotoluene (CAS 121-14-2)	Can be absorbed through the skin.
2,6-Dinitrotoluene (CAS 606-20-2)	Can be absorbed through the skin.
p-Nitroaniline (CAS 100-01-6)	Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

2,4-Dinitrotoluene (CAS 121-14-2)	Can be absorbed through the skin.
2,6-Dinitrotoluene (CAS 606-20-2)	Can be absorbed through the skin.
p-Nitroaniline (CAS 100-01-6)	Can be absorbed through the skin.

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

2,4-Dinitrotoluene (CAS 121-14-2)	Can be absorbed through the skin.
2,6-Dinitrotoluene (CAS 606-20-2)	Can be absorbed through the skin.
p-Nitroaniline (CAS 100-01-6)	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

<b>Eye/face protection</b>	Wear eye/face protection. Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Wear appropriate chemical resistant clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	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.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	-139 °F (-95 °C) estimated
<b>Initial boiling point and boiling range</b>	103.55 °F (39.75 °C) estimated
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	15.5 % estimated
<b>Flammability limit - upper (%)</b>	66.4 % estimated
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	579.97 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>	1033 °F (556.11 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	1.324881 g/cm3 estimated
<b>Percent volatile</b>	97.9 % estimated
<b>Specific gravity</b>	1.33 estimated
<b>VOC (Weight %)</b>	97.9 % 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>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.

Hazardous decomposition products Toxic gas.

## 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** Harmful in contact with skin. Causes skin irritation.  
**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. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Harmful if swallowed. Harmful in contact with skin.

Components	Species	Test Results
1-Chloronaphthalene (CAS 90-13-1)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Guinea pig	2000 mg/kg
	Mouse	1091 mg/kg
	Rat	1540 mg/kg
2,3,4,6-Tetrachlorophenol (CAS 58-90-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	250 mg/kg
<i>Oral</i>		
LD50	Gerbil	698 mg/kg
	Guinea pig	250 mg/kg
	Mouse	131 mg/kg
	Rat	140 mg/kg
<i>Other</i>		
LD50	Mouse	82 mg/kg
	Rat	130 mg/kg
2,4,5-Trichlorophenol (CAS 95-95-4)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	820 mg/kg
		0.82 g/kg
<i>Other</i>		
LD50	Rat	355 mg/kg
2,4,6-Trichlorophenol (CAS 88-06-2)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	820 mg/kg
<i>Other</i>		
LD50	Rat	276 mg/kg
2,4-Dinitrophenol (min 15wt% water) (CAS 51-28-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Dog	20 mg/kg
	Mouse	45 mg/kg
	Rabbit	30 mg/kg
	Rat	30 mg/kg
<i>Other</i>		
LD50	Dog	20 mg/kg

Components	Species	Test Results
	Mouse	26 mg/kg
	Rat	20 mg/kg
2,4-Dinitrotoluene (CAS 121-14-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2500 mg/kg
<i>Inhalation</i>		
LC50	Rat	0.24 mg/l
<i>Oral</i>		
LD50	Cat	27 mg/kg
	Guinea pig	1300 mg/kg
	Mouse	750 mg/kg
	Rat	268 mg/kg
TD	Dog	1 mg/kg
<i>Other</i>		
LD50	Mouse	> 500 mg/kg
2,6-Dinitrotoluene (CAS 606-20-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2500 mg/kg
<i>Inhalation</i>		
LC50	Rat	0.24 mg/l
<i>Oral</i>		
LD50	Cat	27 mg/kg
	Guinea pig	1300 mg/kg
	Mouse	621 mg/kg
	Rat	177 mg/kg
TD	Dog	4 mg/kg
<i>Other</i>		
LD50	Mouse	> 500 mg/kg
2-Chloronaphthalene (CAS 91-58-7)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	886 mg/kg
	Rat	2078 mg/kg
4-Nitrophenol (CAS 100-02-7)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	380 mg/kg
	Rabbit	220 mg/kg
	Rat	220 - 620 mg/kg
<i>Other</i>		
LD50	Mouse	75 mg/kg
a-Naphthylamine (CAS 134-32-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	447 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 0.056 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	680 mg/kg
<i>Other</i>		
LD50	Mouse	96 mg/kg

Components	Species	Test Results
	Rat	620 mg/kg
Diethyl phthalate (CAS 84-66-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 22400 mg/kg > 10 ml/kg
<i>Inhalation</i>		
LC50	Rat	> 511 ppm, 6 Hours > 4.64 mg/l, 6 Hours
<i>Oral</i>		
LD50	Mouse	2500 mg/kg
	Rabbit	1000 mg/kg
	Rat	9500 - 31000 mg/kg 8.2 ml/kg
<i>Other</i>		
LD50	Mouse	3.22 g/kg 2.87 ml/kg
Dimethyl phthalate (CAS 131-11-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 12000 mg/kg
	Rat	38000 mg/kg
<i>Inhalation</i>		
LC50	-	6.76 mg/l
	Rat	> 10.4 mg/l, 6 Hours
<i>Oral</i>		
LD50	Guinea pig	2400 mg/kg
	Hen	10200 mg/kg
	Mouse	7200 mg/kg
	Rabbit	5300 mg/kg
	Rat	2400 mg/kg
<i>Other</i>		
LD50	Mouse	1380 mg/kg
	Rat	324 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



Components	Species	Test Results
<i>Oral</i> LD50	Rat	1600 mg/kg
<i>Other</i> LD50	Mouse	437 mg/kg
m-Nitroaniline (CAS 99-09-2)		
<b>Acute</b>		
<i>Oral</i> LD50	Guinea pig	450 mg/kg
	Mouse	308 mg/kg
	Rat	535 mg/kg
o-Nitroaniline (CAS 88-74-4)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rabbit	> 7940 mg/kg
<i>Inhalation</i> LC50	Rat	> 2.529 mg/l, 4 Hours
<i>Oral</i> LD50	Guinea pig	2350 mg/kg
	Mouse	1070 mg/kg
	Rat	1600 mg/kg
Pentachlorobenzene (CAS 608-93-5)		
<b>Acute</b>		
<i>Oral</i> LD50	Mouse	1175 mg/kg
	Rat	940 mg/kg
p-Nitroaniline (CAS 100-01-6)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rat	> 2500 mg/kg
<i>Oral</i> LD50	Guinea pig	450 mg/kg
	Mouse	810 mg/kg
	Rat	750 mg/kg
<i>Other</i> LD50	Mouse	250 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>	This product is not expected to cause skin sensitization.
<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

2,3,4,6-Tetrachlorophenol (CAS 58-90-2)	2B Possibly carcinogenic to humans.
2,4,5-Trichlorophenol (CAS 95-95-4)	2B Possibly carcinogenic to humans.
2,4,6-Trichlorophenol (CAS 88-06-2)	2B Possibly carcinogenic to humans.
2,4-Dinitrotoluene (CAS 121-14-2)	2B Possibly carcinogenic to humans.
2,6-Dinitrotoluene (CAS 606-20-2)	2B Possibly carcinogenic to humans.
Acenaphthene (CAS 83-32-9)	3 Not classifiable as to carcinogenicity to humans.
a-Naphthylamine (CAS 134-32-7)	3 Not classifiable as to carcinogenicity to humans.
b-Naphthylamine (CAS 91-59-8)	1 Carcinogenic to humans.
Fluorene (CAS 86-73-7)	3 Not classifiable as to carcinogenicity to humans.

Methylene chloride (CAS 75-09-2)

2B Possibly carcinogenic to humans.

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

2,4,6-Trichlorophenol (CAS 88-06-2)

Reasonably Anticipated to be a Human Carcinogen.

b-Naphthylamine (CAS 91-59-8)

Known To Be 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)**

a-Naphthylamine (CAS 134-32-7)

Cancer

b-Naphthylamine (CAS 91-59-8)

Cancer

Methylene chloride (CAS 75-09-2)

Cancer

**Reproductive toxicity**

Suspected of damaging fertility.

**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**

Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components	Species	Test Results
1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 0.32 mg/l, 96 hours
1-Chloronaphthalene (CAS 90-13-1)		
<b>Aquatic</b>		
Fish	LC50	Sheepshead minnow ( <i>Cyprinodon variegatus</i> ) 0.69 mg/l, 96 hours
2,3,4,6-Tetrachlorophenol (CAS 58-90-2)		
<b>Aquatic</b>		
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 0.11 - 0.16 mg/l, 96 hours
2,4,5-Trichlorophenol (CAS 95-95-4)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 0.72 - 1.2 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 0.39 - 0.54 mg/l, 96 hours
2,4,6-Trichlorophenol (CAS 88-06-2)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 1.8 - 2.6 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 0.35 - 0.49 mg/l, 96 hours
2,4-Dinitrophenol (min 15wt% water) (CAS 51-28-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 3.4 - 5.66 mg/l, 48 hours
Fish	LC50	Asiatic knifefish ( <i>Notopterus notopterus</i> ) 0.9 mg/l, 96 hours
2,4-Dinitrotoluene (CAS 121-14-2)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 22.5 - 30.5 mg/l, 48 hours
Fish	LC50	Zebra danio ( <i>Danio rerio</i> ) 10 - 60 mg/l, 96 hours
2,6-Dinitrotoluene (CAS 606-20-2)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 21.7 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 17.2 - 20.2 mg/l, 96 hours
4-Chlorophenyl phenyl ether (CAS 7005-72-3)		
<b>Aquatic</b>		
Fish	LC50	Brook trout ( <i>Salvelinus fontinalis</i> ) 0.65 - 0.82 mg/l, 96 hours

Components		Species	Test Results
4-Nitrophenol (CAS 100-02-7)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	3.1 - 7.1 mg/l, 48 hours
Fish	LC50	Zebra danio (Danio rerio)	5.6 - 13.9 mg/l, 96 hours
Acenaphthene (CAS 83-32-9)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	1.102 - 1.475 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.52 - 0.71 mg/l, 96 hours
Dibenzofuran (CAS 132-64-9)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow (Pimephales promelas)	0.84 - 1.31 mg/l, 96 hours
Diethyl phthalate (CAS 84-66-2)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	86 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	12 mg/l, 96 hours
Dimethyl phthalate (CAS 131-11-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	45.9 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	29 mg/l, 96 hours
Fluorene (CAS 86-73-7)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia pulex)	0.212 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.55 - 1.21 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
m-Nitroaniline (CAS 99-09-2)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	0.195 - 2.02 mg/l, 48 hours
Fish	LC50	Guppy (Poecilia reticulata)	72.6 - 91.8 mg/l, 96 hours
o-Nitroaniline (CAS 88-74-4)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	4.08 - 6 mg/l, 48 hours
Pentachlorobenzene (CAS 608-93-5)			
<b>Aquatic</b>			
Fish	LC50	Bluegill (Lepomis macrochirus)	0.18 - 0.32 mg/l, 96 hours
p-Nitroaniline (CAS 100-01-6)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	17 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	85.7 - 117 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)**

1,2,4,5-Tetrachlorobenzene	4.6
1-Chloronaphthalene	4
2,3,4,6-Tetrachlorophenol	4.45
2,4,5-Trichlorophenol	3.72
2,4,6-Trichlorophenol	3.69
2,4-Dinitrophenol (min 15wt% water)	1.67

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

2,4-Dinitrotoluene	1.98
2,6-Dinitrotoluene	2.1
2-Chloronaphthalene	3.9
4-Chlorophenyl phenyl ether	4.08
4-Nitrophenol	1.91
Acenaphthene	3.92
Acenaphthylene	4.07
a-Naphthylamine	2.25
Dibenzofuran	4.12
Diethyl phthalate	2.47
Dimethyl phthalate	1.6
Methylene chloride	1.25
m-Nitroaniline	1.37
Pentachlorobenzene	5.18
p-Nitroaniline	1.39

**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 P List: Reference**

2,4-Dinitrophenol (min 15wt% water) (CAS 51-28-5)	P048
p-Nitroaniline (CAS 100-01-6)	P077

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

1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)	U207
2,4-Dinitrotoluene (CAS 121-14-2)	U105
2,6-Dinitrotoluene (CAS 606-20-2)	U106
2-Chloronaphthalene (CAS 91-58-7)	U047
4-Nitrophenol (CAS 100-02-7)	U170
a-Naphthylamine (CAS 134-32-7)	U167
b-Naphthylamine (CAS 91-59-8)	U168
Diethyl phthalate (CAS 84-66-2)	U088
Dimethyl phthalate (CAS 131-11-3)	U102
Methylene chloride (CAS 75-09-2)	U080
Pentachlorobenzene (CAS 608-93-5)	U183

**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
<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>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

UN number	UN1593
UN proper shipping name	Dichloromethane solution
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	6L
Special precautions for user	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
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
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



## 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)

1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)	1.0 % One-Time Export Notification only.
2,4,5-Trichlorophenol (CAS 95-95-4)	0.1 % One-Time Export Notification only.
Pentachlorobenzene (CAS 608-93-5)	1.0 % One-Time Export Notification only.
p-Nitroaniline (CAS 100-01-6)	1.0 % One-Time Export Notification only.

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

1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)	Listed.
1-Chloronaphthalene (CAS 90-13-1)	Listed.
2,3,4,6-Tetrachlorophenol (CAS 58-90-2)	Listed.

2,4,5-Trichlorophenol (CAS 95-95-4)	Listed.
2,4,6-Trichlorophenol (CAS 88-06-2)	Listed.
2,4-Dinitrophenol (min 15wt% water) (CAS 51-28-5)	Listed.
2,4-Dinitrotoluene (CAS 121-14-2)	Listed.
2,6-Dinitrotoluene (CAS 606-20-2)	Listed.
2-Chloronaphthalene (CAS 91-58-7)	Listed.
4-Chlorophenyl phenyl ether (CAS 7005-72-3)	Listed.
4-Nitrophenol (CAS 100-02-7)	Listed.
Acenaphthene (CAS 83-32-9)	Listed.
Acenaphthylene (CAS 208-96-8)	Listed.
a-Naphthylamine (CAS 134-32-7)	Listed.
b-Naphthylamine (CAS 91-59-8)	Listed.
Dibenzofuran (CAS 132-64-9)	Listed.
Diethyl phthalate (CAS 84-66-2)	Listed.
Dimethyl phthalate (CAS 131-11-3)	Listed.
Fluorene (CAS 86-73-7)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.
Pentachlorobenzene (CAS 608-93-5)	Listed.
p-Nitroaniline (CAS 100-01-6)	Listed.

**SARA 304 Emergency release notification**

Not regulated.

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

a-Naphthylamine (CAS 134-32-7)	Cancer
b-Naphthylamine (CAS 91-59-8)	Cancer
Methylene chloride (CAS 75-09-2)	Cancer
a-Naphthylamine (CAS 134-32-7)	Skin irritation
b-Naphthylamine (CAS 91-59-8)	Acute toxicity
Methylene chloride (CAS 75-09-2)	Heart
a-Naphthylamine (CAS 134-32-7)	Acute toxicity
Methylene chloride (CAS 75-09-2)	Central nervous system
	Liver
	Skin irritation
	Eye irritation

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

<b>Hazard categories</b>	Immediate Hazard - Yes
	Delayed Hazard - Yes
	Fire Hazard - No
	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.
Methylene chloride	75-09-2	90 - 100
2,3,4,6-Tetrachlorophenol	58-90-2	0.1
2,4,6-Trichlorophenol	88-06-2	0.1
2,4-Dinitrotoluene	121-14-2	0.1
2,6-Dinitrotoluene	606-20-2	0.1
a-Naphthylamine	134-32-7	0.1
b-Naphthylamine	91-59-8	0.1

**Other federal regulations**

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

2,4,5-Trichlorophenol (CAS 95-95-4)
2,4,6-Trichlorophenol (CAS 88-06-2)
2,4-Dinitrophenol (min 15wt% water) (CAS 51-28-5)
2,4-Dinitrotoluene (CAS 121-14-2)
4-Nitrophenol (CAS 100-02-7)
Acenaphthene (CAS 83-32-9)
Acenaphthylene (CAS 208-96-8)
a-Naphthylamine (CAS 134-32-7)
b-Naphthylamine (CAS 91-59-8)
Dibenzofuran (CAS 132-64-9)
Dimethyl phthalate (CAS 131-11-3)
Fluorene (CAS 86-73-7)
Methylene chloride (CAS 75-09-2)

**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**

- 1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)
- 2,3,4,6-Tetrachlorophenol (CAS 58-90-2)
- 2,4,5-Trichlorophenol (CAS 95-95-4)
- 2,4,6-Trichlorophenol (CAS 88-06-2)
- 2,4-Dinitrophenol (min 15wt% water) (CAS 51-28-5)
- 2,4-Dinitrotoluene (CAS 121-14-2)
- 2,6-Dinitrotoluene (CAS 606-20-2)
- 2-Chloronaphthalene (CAS 91-58-7)
- 4-Chlorophenyl phenyl ether (CAS 7005-72-3)
- 4-Nitrophenol (CAS 100-02-7)
- Acenaphthene (CAS 83-32-9)
- Acenaphthylene (CAS 208-96-8)
- a-Naphthylamine (CAS 134-32-7)
- b-Naphthylamine (CAS 91-59-8)
- Dibenzofuran (CAS 132-64-9)
- Diethyl phthalate (CAS 84-66-2)
- Dimethyl phthalate (CAS 131-11-3)
- Fluorene (CAS 86-73-7)
- Methylene chloride (CAS 75-09-2)
- Pentachlorobenzene (CAS 608-93-5)
- p-Nitroaniline (CAS 100-01-6)

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

- |   |         |
|---|---------|
| 2,3,4,6-Tetrachlorophenol (CAS 58-90-2)           | 500 LBS |
| 2,4,5-Trichlorophenol (CAS 95-95-4)               | 500 LBS |
| 2,4,6-Trichlorophenol (CAS 88-06-2)               | 500 LBS |
| 2,4-Dinitrophenol (min 15wt% water) (CAS 51-28-5) | 500 LBS |
| 2,4-Dinitrotoluene (CAS 121-14-2)                 | 500 LBS |
| 2,6-Dinitrotoluene (CAS 606-20-2)                 | 500 LBS |
| 2-Chloronaphthalene (CAS 91-58-7)                 | 500 LBS |
| 4-Nitrophenol (CAS 100-02-7)                      | 500 LBS |
| a-Naphthylamine (CAS 134-32-7)                    | 500 LBS |
| b-Naphthylamine (CAS 91-59-8)                     | 500 LBS |
| Dibenzofuran (CAS 132-64-9)                       | 500 LBS |
| Diethyl phthalate (CAS 84-66-2)                   | 500 LBS |
| Dimethyl phthalate (CAS 131-11-3)                 | 500 LBS |
| Methylene chloride (CAS 75-09-2)                  | 500 LBS |
| Pentachlorobenzene (CAS 608-93-5)                 | 500 LBS |
| p-Nitroaniline (CAS 100-01-6)                     | 500 LBS |

**US. Pennsylvania RTK - Hazardous Substances**

- 1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)
- 1-Chloronaphthalene (CAS 90-13-1)
- 2,3,4,6-Tetrachlorophenol (CAS 58-90-2)
- 2,4,5-Trichlorophenol (CAS 95-95-4)
- 2,4,6-Trichlorophenol (CAS 88-06-2)
- 2,4-Dinitrophenol (min 15wt% water) (CAS 51-28-5)
- 2,4-Dinitrotoluene (CAS 121-14-2)
- 2,6-Dinitrotoluene (CAS 606-20-2)
- 2-Chloronaphthalene (CAS 91-58-7)
- 4-Chlorophenyl phenyl ether (CAS 7005-72-3)
- 4-Nitrophenol (CAS 100-02-7)
- Acenaphthene (CAS 83-32-9)
- Acenaphthylene (CAS 208-96-8)
- a-Naphthylamine (CAS 134-32-7)
- b-Naphthylamine (CAS 91-59-8)
- Dibenzofuran (CAS 132-64-9)
- Diethyl phthalate (CAS 84-66-2)
- Dimethyl phthalate (CAS 131-11-3)
- Fluorene (CAS 86-73-7)
- Methylene chloride (CAS 75-09-2)
- Pentachlorobenzene (CAS 608-93-5)
- p-Nitroaniline (CAS 100-01-6)

## US. Rhode Island RTK

1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)  
1-Chloronaphthalene (CAS 90-13-1)  
2,3,4,6-Tetrachlorophenol (CAS 58-90-2)  
2,4,5-Trichlorophenol (CAS 95-95-4)  
2,4,6-Trichlorophenol (CAS 88-06-2)  
2,4-Dinitrophenol (min 15wt% water) (CAS 51-28-5)  
2,4-Dinitrotoluene (CAS 121-14-2)  
2,6-Dinitrotoluene (CAS 606-20-2)  
2-Chloronaphthalene (CAS 91-58-7)  
4-Chlorophenyl phenyl ether (CAS 7005-72-3)  
4-Nitrophenol (CAS 100-02-7)  
Acenaphthene (CAS 83-32-9)  
Acenaphthylene (CAS 208-96-8)  
a-Naphthylamine (CAS 134-32-7)  
b-Naphthylamine (CAS 91-59-8)  
Dibenzofuran (CAS 132-64-9)  
Diethyl phthalate (CAS 84-66-2)  
Dimethyl phthalate (CAS 131-11-3)  
Fluorene (CAS 86-73-7)  
Methylene chloride (CAS 75-09-2)  
Pentachlorobenzene (CAS 608-93-5)  
p-Nitroaniline (CAS 100-01-6)

## 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

2,4,6-Trichlorophenol (CAS 88-06-2)	Listed: January 1, 1988
2,4-Dinitrotoluene (CAS 121-14-2)	Listed: July 1, 1988
2,6-Dinitrotoluene (CAS 606-20-2)	Listed: July 1, 1995
a-Naphthylamine (CAS 134-32-7)	Listed: October 1, 1989
b-Naphthylamine (CAS 91-59-8)	Listed: February 27, 1987
Methylene chloride (CAS 75-09-2)	Listed: April 1, 1988

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

2,4-Dinitrotoluene (CAS 121-14-2)	Listed: August 20, 1999
2,6-Dinitrotoluene (CAS 606-20-2)	Listed: August 20, 1999

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

2,4-Dinitrotoluene (CAS 121-14-2)	Listed: August 20, 1999
2,6-Dinitrotoluene (CAS 606-20-2)	Listed: August 20, 1999

## 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	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

Issue date	11-06-2014
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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