



# CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 09/11/2015

Revision date:

Version: 1.0

**ES-5037**

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixtures  
Product name : CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2  
Product code : ES-5037

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

#### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-703-741-5970 (24 hours)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3	H226
Acute Tox. 4 (Oral)	H302
Acute Tox. 3 (Dermal)	H311
Acute Tox. 3 (Inhalation)	H331
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Carc. 2	H351
Repr. 2	H361
STOT SE 3	H336
STOT SE 3	H335
STOT SE 1	H370
STOT RE 2	H373
Aquatic Chronic 3	H412

Full text of H-phrases: see section 16

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.1; R45  
Muta.Cat.1; R46  
T; R39/23/24/25  
Xn; R20/21/22  
Xi; R36/38  
N; R50/53  
R10

Full text of R-phrases: see section 16

##### Classification (GHS-US)

Flam. Liq. 3	H226
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Acute Tox. 4 (Oral)	H302
Acute Tox. 3 (Dermal)	H311
Acute Tox. 3 (Inhalation)	H331
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Skin Sens. 1	H317
Carc. 2	H351
Repr. 2	H361
STOT SE 3	H336
STOT SE 3	H335
STOT SE 1	H370
STOT RE 2	H373
Aquatic Chronic 3	H412

### Adverse physicochemical, human health and environmental effects

Liver, Pancreas, Blood, Central nervous system, Heart, Kidney. Eyes.

## 2.2. Label elements

### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazardous ingredients

: METHYLENE CHLORIDE-D2 (D, 99.8%), BIS(2-CHLOROETHYL)ETHER (D8, 98%), PHENOL (RING-D5, 98%), NITROBENZENE-D5 (D, 99%), 2,4-DICHLOROPHENOL (RING-D3, 98%), 4-NITROPHENOL (RING-D4, 98%), 4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%)

Hazard statements (CLP)

: H226 - Flammable liquid and vapor  
H302 - Harmful if swallowed  
H311+H331 - Toxic in contact with skin or if inhaled  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer  
H361 - Suspected of damaging fertility. Suspected of damaging the unborn child  
H370 - Causes damage to organs (blood, central nervous system, eye, heart, kidneys, liver, pancreas)  
H373 - May cause damage to organs (blood, central nervous system, eye, heart, kidneys, liver, pancreas) through prolonged or repeated exposure  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical, lighting, ventilating equipment  
P260 - Do not breathe fume, mist, spray, vapors  
P264 - Wash both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area

EUH phrases

: EUH208 - Contains 4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%)(534-52-1 (Unlabeled)), 4-CHLOROANILINE (RING-D4, 98%)(191656-33-4). May produce an allergic reaction

### GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H226 - Flammable liquid and vapor  
H302 - Harmful if swallowed

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H311+H331 - Toxic in contact with skin or if inhaled  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer (Dermal, Inhalation, oral)  
H361 - (Dermal, Inhalation, oral)  
H370 - Causes damage to organs (blood, central nervous system, heart, kidneys, liver, pancreas) (Dermal, Inhalation, oral)  
H373 - May cause damage to organs (blood, central nervous system, eye, heart, kidneys, liver, pancreas) through prolonged or repeated exposure (Dermal, Inhalation, oral)  
H412 - Harmful to aquatic life with long lasting effects

### Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical, lighting, ventilating equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P260 - Do not breathe fume, mist, spray, vapors  
P261 - Avoid breathing fume, mist, spray, vapors  
P264 - Wash Both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P273 - Avoid release to the environment  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P311 - Call a POISON CENTER or doctor/physician  
P312 - Call a POISON CENTER/doctor/physician if you feel unwell  
P314 - Get medical advice and attention if you feel unwell  
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)  
P330 - If swallowed, rinse mouth  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P361 - Remove/Take off immediately all contaminated clothing  
P362 - Take off contaminated clothing and wash before reuse  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P363 - Wash contaminated clothing before reuse  
P370+P378 - In case of fire: Use Alcohol resistant foam., Carbon dioxide., Dry chemical., Water spray for extinction  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P403+P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/container to Comply with applicable regulations.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
METHYLENE CHLORIDE-D2 (D, 99.8%)	(CAS No) 1665-00-5 (EC no) 000-838-9 (EC index no) 602-004-00-3	97.65	Carc.Cat.3; R40 T; R39/23/24/25 Xn; R22 Xi; R36/38

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACENAPHTHYLENE (D8, 98%)	(CAS No) 93951-97-4 (EC no) 205-917-1	0.15	N; R50/53 Xi; R36/37/38
BENZO[A]PYRENE (D12, 97%)	(CAS No) 63466-71-7 (EC no) 200-028-5 (EC index no) 601-032-00-3	0.15	Carc.Cat.1; R45 Muta.Cat.1; R46 Repr.Cat.1; R61 R42 Xi; R38 N; R50/53
PYRENE (D10, 98%)	(CAS No) 1718-52-1 (EC no) 204-927-3	0.15	Xi; R36/38 N; R50/53
BIS(2-CHLOROETHYL)ETHER (D8, 98%)	(CAS No) 93952-02-4 (EC no) 203-870-1	0.15	R10 Muta.Cat.3; R68 T+; R26/27/28
PHENOL (RING-D5, 98%)	(CAS No) 4165-62-2 (EC no) 203-632-7 (EC index no) 604-001-00-2	0.15	Muta.Cat.3; R68 T; R23/24/25 C; R34
2-CHLOROPHENOL (RING-D4, 99%)	(CAS No) 93951-73-6 (EC no) 202-433-2 (EC index no) 604-008-00-0	0.15	Xn; R20/21/22 N; R51/53
P-CRESOL (D8, 98%)	(CAS No) 190780-66-6 (EC no) 203-398-6	0.15	T; R24/25 C; R34
NITROBENZENE-D5 (D, 99%)	(CAS No) 4165-60-0 (EC no) 202-716-0 (EC index no) 609-003-00-7	0.15	Carc.Cat.3; R40 Repr.Cat.3; R62 Repr.Cat.3; R63 T; R23 Xn; R22 N; R51/53 R48
2-NITROPHENOL (RING-D4, 98%)	(CAS No) 88-75-5 (Unlabeled) (EC no) 201-857-5	0.15	Xn; R22 Xi; R36 Xi; R37 Xi; R38
2,4-DICHLOROPHENOL (RING-D3, 98%)	(CAS No) 93951-74-7 (EC no) 204-429-6 (EC index no) 604-011-00-7	0.15	T+; R28 T; R24 T; R23/25 N; R51/53
4-NITROPHENOL (RING-D4, 98%)	(CAS No) 93951-79-2 (EC no) 202-811-7 (EC index no) 609-015-00-2	0.15	T; R25 Xn; R20 Xn; R21 N; R51/53 R48
FLUORENE (D10, 98%)	(CAS No) 81103-79-9 (EC no) 201-695-5	0.15	Carc.Cat.1; R45 N; R50/53
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%)	(CAS No) 534-52-1 (Unlabeled) (EC no) 208-601-1 (EC index no) 609-020-00-X	0.15	Xn; R22 Xi; R36
DIMETHYL PHTHALATE (DIMETHYL-D6, 99%)	(CAS No) 85448-30-2 (EC no) 205-011-6	0.15	R52
4-CHLOROANILINE (RING-D4, 98%)	(CAS No) 191656-33-4 (EC no) 203-401-0 (EC index no) 612-137-00-9	0.15	Carc.Cat.1; R45 T; R23/24/25 N; R50/53
ANTHRACENE (D10, 98%) substance listed as REACH Candidate (Anthracene)	(CAS No) 1719-06-8 (EC no) 204-371-1	0.15	Xi; R36/37/38 N; R50/53

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHYLENE CHLORIDE-D2 (D, 99.8%)	(CAS No) 1665-00-5 (EC no) 000-838-9 (EC index no) 602-004-00-3	97.65	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373
ACENAPHTHYLENE (D8, 98%)	(CAS No) 93951-97-4 (EC no) 205-917-1	0.15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BENZO[A]PYRENE (D12, 97%)	(CAS No) 63466-71-7 (EC no) 200-028-5 (EC index no) 601-032-00-3	0.15	Not classified
PYRENE (D10, 98%)	(CAS No) 1718-52-1 (EC no) 204-927-3	0.15	Not classified
BIS(2-CHLOROETHYL)ETHER (D8, 98%)	(CAS No) 93952-02-4 (EC no) 203-870-1	0.15	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Carc. 2, H351
PHENOL (RING-D5, 98%)	(CAS No) 4165-62-2 (EC no) 203-632-7 (EC index no) 604-001-00-2	0.15	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Muta. 2, H341
2-CHLOROPHENOL (RING-D4, 99%)	(CAS No) 93951-73-6 (EC no) 202-433-2 (EC index no) 604-008-00-0	0.15	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 2, H411
P-CRESOL (D8, 98%)	(CAS No) 190780-66-6 (EC no) 203-398-6	0.15	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation), H330
NITROBENZENE-D5 (D, 99%)	(CAS No) 4165-60-0 (EC no) 202-716-0 (EC index no) 609-003-00-7	0.15	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Carc. 2, H351 Repr. 2, H361 STOT RE 1, H372 Aquatic Chronic 2, H411
2-NITROPHENOL (RING-D4, 98%)	(CAS No) 88-75-5 (Unlabeled) (EC no) 201-857-5	0.15	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 3, H412
2,4-DICHLOROPHENOL (RING-D3, 98%)	(CAS No) 93951-74-7 (EC no) 204-429-6 (EC index no) 604-011-00-7	0.15	Acute Tox. 2 (Oral), H300 Carc. 2, H351
4-NITROPHENOL (RING-D4, 98%)	(CAS No) 93951-79-2 (EC no) 202-811-7 (EC index no) 609-015-00-2	0.15	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 STOT RE 2, H373 Aquatic Chronic 2, H411
FLUORENE (D10, 98%)	(CAS No) 81103-79-9 (EC no) 201-695-5	0.15	Not classified
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%)	(CAS No) 534-52-1 (Unlabeled) (EC no) 208-601-1 (EC index no) 609-020-00-X	0.15	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DIMETHYL PHTHALATE (DIMETHYL-D6, 99%)	(CAS No) 85448-30-2 (EC no) 205-011-6	0.15	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4-CHLOROANILINE (RING-D4, 98%)	(CAS No) 191656-33-4 (EC no) 203-401-0 (EC index no) 612-137-00-9	0.15	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4 (Inhalation), H332 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
ANTHRACENE (D10, 98%) substance listed as REACH Candidate (Anthracene)	(CAS No) 1719-06-8 (EC no) 204-371-1	0.15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410

Name	Product identifier	%	Classification (GHS-US)
METHYLENE CHLORIDE-D2 (D, 99.8%)	(CAS No) 1665-00-5	97.65	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373
BIS(2-CHLOROETHYL)ETHER (D8, 98%)	(CAS No) 93952-02-4	0.15	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Carc. 2, H351
NITROBENZENE-D5 (D, 99%)	(CAS No) 4165-60-0	0.15	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Carc. 2, H351 Repr. 2, H361 STOT RE 1, H372 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
2,4-DICHLOROPHENOL (RING-D3, 98%)	(CAS No) 93951-74-7	0.15	Acute Tox. 2 (Oral), H300 Carc. 2, H351 Aquatic Acute 2, H401
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%)	(CAS No) 534-52-1 (Unlabeled)	0.15	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R-, H- and EUH-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Call a POISON CENTER or doctor/physician.
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Rinse mouth. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.  
Explosion hazard : May form flammable/explosive vapor-air mixture.  
Reactivity : Vapor is explosive with air above.

### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe area.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### 6.3. Methods and material for containment and cleaning up

For containment : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.  
Precautions for safe handling : No naked lights. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.  
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.  
Storage conditions : Store at room temperature away from light and moisture.  
Incompatible materials : Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.000000000 ppm Central Nervous System impairment, Carboxyhemoglobinemia substances (see BEI)
METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.000000000 ppm Central Nervous System impairment, Carboxyhemoglobinemia substances (see BEI)
USA OSHA	OSHA PEL (STEL) (ppm)	125.000000000 ppm

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<b>BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5.000000000 ppm Eye & Upper Respiratory Tract irritation. Nausea.
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	10.000000000 ppm Eye & Upper Respiratory Tract irritation. Nausea.
USA OSHA	OSHA PEL (TWA) (ppm)	5.000000000 ppm Skin notation.
USA OSHA	OSHA PEL (STEL) (ppm)	10.000000000 ppm Skin notation.

<b>PHENOL (RING-D5, 98%) (4165-62-2)</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5.000000000 ppm Central Nervous System impairment.Upper Respiratory Tract irritation.Lung damage
USA OSHA	OSHA PEL (TWA) (ppm)	5.000000000 ppm Skin notation

<b>P-CRESOL (D8, 98%) (190780-66-6)</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	22.000000000 mg/m <sup>3</sup> Skin contact does contribute to exposure.
USA OSHA	OSHA PEL (TWA) (ppm)	5.000000000 ppm Skin contact does contribute to exposure.

<b>NITROBENZENE-D5 (D, 99%) (4165-60-0)</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1.000000000 ppm Confirmed animal carcinogen with unknown relevance to humans.
USA OSHA	OSHA PEL (TWA) (ppm)	1.000000000 ppm Skin notation.

<b>4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (534-52-1 (Unlabeled))</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.200000000 mg/m <sup>3</sup> Basal metabolism. Danger of cutaneous absorption
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.200000000 mg/m <sup>3</sup> Skin notation

<b>DIMETHYL PHTHALATE (DIMETHYL-D6, 99%) (85448-30-2)</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5.000000000 mg/m <sup>3</sup> Eye & Upper Respiratory Tract irritation.
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5.000000000 mg/m <sup>3</sup>

<b>4-CHLOROANILINE (RING-D4, 98%) (191656-33-4)</b>		
USA OSHA	OSHA PEL (TWA) (ppm)	5.000000000 ppm Skin contact does contribute to exposure

<b>ANTHRACENE (D10, 98%) (1719-06-8)</b>		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.200000000 mg/m <sup>3</sup>

<b>BENZO[A]PYRENE (D12, 97%) (63466-71-7)</b>		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.200000000 mg/m <sup>3</sup> Exposure should be carefully controlled to levels as low as possible.

<b>PYRENE (D10, 98%) (1718-52-1)</b>		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.200000000 mg/m <sup>3</sup>

### 8.2. Exposure controls

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Hand protection

: Wear suitable protective clothing and gloves.

Eye protection

: Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture.

Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 86.95 (Labeled)
Color	: Colourless.
Odor	: Sweet, penetrating, ether-like odor.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -97 °C (-143 °F)
Freezing point	: No data available
Boiling point	: 39.8 - 40 °C (103.6 - 104 °F)
Flash point	: No data available
Self ignition temperature	: 556.1 °C (1,033.0 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 470.9 hPa (353.2 mmHg) at 20.0 °C (68.0 °F)
Relative vapor density at 20 °C	: 2.93 - (Air = 1.0)
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: 12 - 19 % (V)

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Vapor is explosive with air above.

#### 10.2. Chemical stability

See storage and expiration date on CoA.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Open flame. Direct sunlight.

#### 10.5. Incompatible materials

Alkali metals, Aluminum, Strong oxidizing agents, Bases, Amines, Magnesium. Strong acids and strong bases, Vinyl compounds.

#### 10.6. Hazardous decomposition products

May release flammable gases.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Toxic in contact with skin. Toxic if inhaled.

CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2	
LD50 oral rat	1600 mg/kg
LC50 inhalation rat (mg/l)	52000 mg/m <sup>3</sup>
ATE (oral)	1600.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h

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<b>CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2</b>	
ATE (vapors)	3.000 mg/l/4h
ATE (dust, mist)	0.500 mg/l/4h
<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
LD50 oral rat	1600 mg/kg
LC50 inhalation rat (mg/l)	52000 mg/m <sup>3</sup>
ATE (oral)	1600.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
ATE (vapors)	52.000 mg/l/4h
ATE (dust, mist)	52.000 mg/l/4h
<b>BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)</b>	
LD50 oral rat	75.0 mg/kg
LD50 dermal rabbit	90.0 mg/kg
LC50 inhalation rat (mg/l)	330 mg/m <sup>3</sup> 4 h
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	50.000 mg/kg body weight
ATE (gases)	10.000 ppmV/4h
ATE (vapors)	0.050 mg/l/4h
ATE (dust, mist)	0.005 mg/l/4h
<b>PHENOL (RING-D5, 98%) (4165-62-2)</b>	
LD50 oral rat	410.0 - 650.0 mg/kg
LD50 dermal rabbit	630.0 mg/kg
LC50 inhalation rat (mg/l)	900 mg/m <sup>3</sup> 8 h
ATE (oral)	410.000 mg/kg body weight
ATE (dermal)	630.000 mg/kg body weight
ATE (vapors)	0.900 mg/l/4h
ATE (dust, mist)	0.900 mg/l/4h
<b>2-CHLOROPHENOL (RING-D4, 99%) (93951-73-6)</b>	
LD50 oral rat	670.0 mg/kg
ATE (oral)	670.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
ATE (dust, mist)	1.500 mg/l/4h
<b>P-CRESOL (D8, 98%) (190780-66-6)</b>	
LD50 oral rat	207.0 mg/kg
LD50 dermal rabbit	301.0 mg/kg
LC50 inhalation rat (mg/l)	> 710 mg/m <sup>3</sup> 1 h
<b>NITROBENZENE-D5 (D, 99%) (4165-60-0)</b>	
LD50 oral rat	349.0 mg/kg
LC50 inhalation rat (ppm)	556 ppm 4 h
ATE (oral)	349.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	3.000 mg/l/4h
ATE (dust, mist)	0.500 mg/l/4h
<b>2-NITROPHENOL (RING-D4, 98%) (88-75-5 (Unlabeled))</b>	
LD50 oral rat	334.0 mg/kg
LD50 dermal rabbit	> mg/kg
ATE (oral)	334.000 mg/kg body weight
<b>2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)</b>	
LD50 oral rat	47.0 mg/kg
ATE (oral)	47.000 mg/kg body weight
<b>4-NITROPHENOL (RING-D4, 98%) (93951-79-2)</b>	
LD50 oral rat	202.0 mg/kg
ATE (oral)	202.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
ATE (gases)	4500.000 ppmV/4h

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<b>4-NITROPHENOL (RING-D4, 98%) (93951-79-2)</b>	
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h

<b>4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (534-52-1 (Unlabeled))</b>	
LD50 oral rat	7.0 mg/kg
LD50 dermal rabbit	1000 mg/kg
ATE (oral)	0.500 mg/kg body weight
ATE (dermal)	5.000 mg/kg body weight
ATE (gases)	100.000 ppmV/4h
ATE (vapors)	0.500 mg/l/4h
ATE (dust, mist)	0.050 mg/l/4h

<b>DIMETHYL PHTHALATE (DIMETHYL-D6, 99%) (85448-30-2)</b>	
LD50 oral rat	8200 mg/kg
LD50 dermal rabbit	12000 mg/kg
ATE (oral)	8200.000 mg/kg body weight
ATE (dermal)	12000.000 mg/kg body weight

<b>4-CHLOROANILINE (RING-D4, 98%) (191656-33-4)</b>	
LD50 oral rat	≤ 256.0 mg/kg
LC50 inhalation rat (mg/l)	2340 mg/m <sup>3</sup> 4 h

<b>ACENAPHTHYLENE (D8, 98%) (93951-97-4)</b>	
	LD50 Oral Mouse - 1760 mg/kg

<b>PYRENE (D10, 98%) (1718-52-1)</b>	
LD50 oral rat	2700 mg/kg
LC50 inhalation rat (mg/l)	170 mg/m <sup>3</sup>

Skin corrosion/irritation	: Causes skin irritation. Skin - rabbit - Skin irritation - 24 h - Draize Test
Serious eye damage/irritation	: Causes serious eye irritation. Eyes - rabbit - Mild eye irritation - 24 h - Draize Test
Respiratory or skin sensitization	: Not available No data available
Germ cell mutagenicity	: Genotoxicity in vivo - rat - Oral : DNA damage
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not available
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness. May cause respiratory irritation. Causes damage to organs (blood, central nervous system, eye, heart, kidneys, liver, pancreas). May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (blood, central nervous system, eye, heart, kidneys, liver, pancreas) through prolonged or repeated exposure. Inhalation/Oral - May cause damage to organs through repeated exposure.
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.
IARC group	: 2B
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2</b>	
LC50 fish 1	193.00 mg/l Pimephales promelas (fathead minnow) - 96 h

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<b>CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2</b>	
EC50 Daphnia 1	1682.00 mg/l Daphnia magna (Water flea) - 48 h
NOEC (chronic)	130 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
LC50 fish 1	193.00 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	1682.00 mg/l Daphnia magna (Water flea) - 48 h
NOEC (chronic)	130 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
<b>BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)</b>	
LC50 fish 1	600.00 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	240.00 mg/l Daphnia magna (Water flea) - 48 h
<b>PHENOL (RING-D5, 98%) (4165-62-2)</b>	
LC50 fish 1	14 - 25 mg/l - 25 mg/l - Leuciscus idus (Golden orfe) - 48 h
EC50 Daphnia 1	12 mg/l Daphnia magna (Water flea) - 24 h
ErC50 (algae)	370 mg/l Chlorella vulgaris (Fresh water algae) - 96 h
<b>2-CHLOROPHENOL (RING-D4, 99%) (93951-73-6)</b>	
LC50 fish 1	5.7 - 12 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	6.3 - 17.9 mg/l Daphnia magna (Water flea) - 24 h
<b>P-CRESOL (D8, 98%) (190780-66-6)</b>	
LC50 fish 1	7.9 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	1.4 mg/l Daphnia magna (Water flea) - 48 h
<b>NITROBENZENE-D5 (D, 99%) (4165-60-0)</b>	
LC50 fish 1	92 mg/l Danio rerio (zebra fish) - 96 h
EC50 Daphnia 1	50.00 mg/l Daphnia magna (Water flea) - 24 h
ErC50 (algae)	51.60 mg/l Pseudokirchneriella subcapitata (green algae) - 72 h
<b>2-NITROPHENOL (RING-D4, 98%) (88-75-5 (Unlabeled))</b>	
EC50 Daphnia 1	17 mg/l Daphnia magna (Water flea) - 48 h
NOEC (chronic)	24 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
<b>2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)</b>	
LC50 fish 1	1.6 - 2.6 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	2.7 - 3.9 mg/l Daphnia magna (Water flea) - 24 h
<b>4-NITROPHENOL (RING-D4, 98%) (93951-79-2)</b>	
LC50 fish 1	26.7 - 31.3 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
EC50 Daphnia 1	3.1 - 24 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	11.00 mg/l 48 h
<b>4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (534-52-1 (Unlabeled))</b>	
LC50 fish 1	1.54 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	2.7 mg/l Daphnia magna (Water flea) - 48 h
NOEC (chronic)	0.25 mg/l Cyprinus carpio (Carp) - 5 d
<b>DIMETHYL PHTHALATE (DIMETHYL-D6, 99%) (85448-30-2)</b>	
LC50 fish 1	39 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	46.00 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	204 mg/l Desmodesmus subspicatus (Scenedesmus subspicatus) - 48 h
<b>4-CHLOROANILINE (RING-D4, 98%) (191656-33-4)</b>	
LC50 fish 1	1.8 - 3.2 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	0.04 - 0.06 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	2.2 - 6.3 mg/l Desmodesmus subspicatus (green algae) - 72 h
<b>ANTHRACENE (D10, 98%) (1719-06-8)</b>	
LC50 fish 1	0.001 mg/l Lepomis macrochirus (Bluegill) - 96.0 h
EC50 Daphnia 1	0.10 mg/l Daphnia magna (Water flea) - 48 h
<b>BENZO[A]PYRENE (D12, 97%) (63466-71-7)</b>	
EC50 Daphnia 1	0.25 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	0.02 mg/l Pseudokirchneriella subcapitata (green algae) - 48 h

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### 12.2. Persistence and degradability

CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2	
Persistence and degradability	Result: < 30.0 % - Not readily biodegradable.
METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)	
Persistence and degradability	Result: < 30.0 % - Not readily biodegradable.
BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)	
Persistence and degradability	Not available.
PHENOL (RING-D5, 98%) (4165-62-2)	
Persistence and degradability	Not available.
2-CHLOROPHENOL (RING-D4, 99%) (93951-73-6)	
Persistence and degradability	No data available.
P-CRESOL (D8, 98%) (190780-66-6)	
Persistence and degradability	Not available.
NITROBENZENE-D5 (D, 99%) (4165-60-0)	
Persistence and degradability	Not available.
2-NITROPHENOL (RING-D4, 98%) (88-75-5 (Unlabeled))	
Persistence and degradability	No data available.
2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)	
Persistence and degradability	No data available.
FLUORENE (D10, 98%) (81103-79-9)	
Persistence and degradability	Not available.
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (534-52-1 (Unlabeled))	
Persistence and degradability	Not available.
DIMETHYL PHTHALATE (DIMETHYL-D6, 99%) (85448-30-2)	
Persistence and degradability	Not available.
4-CHLOROANILINE (RING-D4, 98%) (191656-33-4)	
Persistence and degradability	Biodegradability: Result: > 90 % - Readily biodegradable.
ANTHRACENE (D10, 98%) (1719-06-8)	
Persistence and degradability	Not available.
ACENAPHTHYLENE (D8, 98%) (93951-97-4)	
Persistence and degradability	Not available.
PYRENE (D10, 98%) (1718-52-1)	
Persistence and degradability	Not available.

### 12.3. Bioaccumulative potential

CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2	
Bioaccumulative potential	Not available.
METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)	
Bioaccumulative potential	Not available.
PHENOL (RING-D5, 98%) (4165-62-2)	
Log Pow	1.46
Bioaccumulative potential	Not available.
P-CRESOL (D8, 98%) (190780-66-6)	
Log Pow	1.94
Bioaccumulative potential	Does not bioaccumulate.
NITROBENZENE-D5 (D, 99%) (4165-60-0)	
Log Pow	1.85
2-NITROPHENOL (RING-D4, 98%) (88-75-5 (Unlabeled))	
Bioaccumulative potential	No data available.

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<b>2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)</b>	
Log Pow	3.065
<b>4-NITROPHENOL (RING-D4, 98%) (93951-79-2)</b>	
Log Pow	1.91
<b>FLUORENE (D10, 98%) (81103-79-9)</b>	
Bioconcentration factor (BCF REACH)	512
Bioaccumulative potential	Bioaccumulative Potential: Oncorhynchus mykiss (rainbow trout) - 24h.
<b>4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (534-52-1 (Unlabeled))</b>	
Bioaccumulative potential	Not available.
<b>DIMETHYL PHTHALATE (DIMETHYL-D6, 99%) (85448-30-2)</b>	
Log Pow	1.47
<b>4-CHLOROANILINE (RING-D4, 98%) (191656-33-4)</b>	
Log Pow	2.12
Bioaccumulative potential	Not available.
<b>ANTHRACENE (D10, 98%) (1719-06-8)</b>	
Bioconcentration factor (BCF REACH)	649
Log Pow	4.45
Bioaccumulative potential	Bioaccumulation Pimephales promelas (fathead minnow) - 42 d.
<b>ACENAPHTHYLENE (D8, 98%) (93951-97-4)</b>	
Bioaccumulative potential	Not available.
<b>BENZO[A]PYRENE (D12, 97%) (63466-71-7)</b>	
Log Pow	5.97
Bioaccumulative potential	Bioaccumulation: Lepomis macrochirus (Bluegill) - 48h. Bioconcentration factor (BCF): 3,208.
<b>PYRENE (D10, 98%) (1718-52-1)</b>	
Bioconcentration factor (BCF REACH)	4810
<b>12.4. Mobility in soil</b>	
<b>CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2</b>	
Ecology - soil	Not available.
<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
Ecology - soil	Not available.
<b>BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)</b>	
Ecology - soil	Not available.
<b>PHENOL (RING-D5, 98%) (4165-62-2)</b>	
Ecology - soil	Not available.
<b>2-CHLOROPHENOL (RING-D4, 99%) (93951-73-6)</b>	
Ecology - soil	No data available.
<b>P-CRESOL (D8, 98%) (190780-66-6)</b>	
Ecology - soil	Not available.
<b>NITROBENZENE-D5 (D, 99%) (4165-60-0)</b>	
Ecology - soil	Not available.
<b>2-NITROPHENOL (RING-D4, 98%) (88-75-5 (Unlabeled))</b>	
Ecology - soil	No data available.
<b>2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)</b>	
Ecology - soil	No data available.
<b>4-NITROPHENOL (RING-D4, 98%) (93951-79-2)</b>	
Ecology - soil	No data available.
<b>FLUORENE (D10, 98%) (81103-79-9)</b>	
Ecology - soil	Not available.

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<b>4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (534-52-1 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>DIMETHYL PHTHALATE (DIMETHYL-D6, 99%) (85448-30-2)</b>	
Ecology - soil	Not available.
<b>4-CHLOROANILINE (RING-D4, 98%) (191656-33-4)</b>	
Ecology - soil	Not available.
<b>ANTHRACENE (D10, 98%) (1719-06-8)</b>	
Ecology - soil	Not available.
<b>ACENAPHTHYLENE (D8, 98%) (93951-97-4)</b>	
Ecology - soil	Not available.
<b>PYRENE (D10, 98%) (1718-52-1)</b>	
Ecology - soil	Not available.

### 12.5. Results of PBT and vPvB assessment

<b>ANTHRACENE (D10, 98%) (1719-06-8)</b>	
This substance/mixture meets the PBT criteria of REACH, annex XIII.	
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.	

### 12.6. Other adverse effects

Other adverse effects : Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Hazardous waste due to toxicity.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No.(DOT)	: 1593
DOT NA no.	UN1593

### 14.2. UN proper shipping name

DOT Proper Shipping Name	: Dichloromethane
Department of Transportation (DOT) Hazard Classes	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison inhalation hazard



Packing group (DOT)	: III - Minor Danger
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# CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2 ES-5037

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)	: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). IP8 - Ammonia solutions may be transported in rigid or composite plastic IBCs (31H1, 31H2 and 31HZ1) that have successfully passed, without leakage or permanent deformation, the hydrostatic test specified in 178.814 of this subchapter at a test pressure that is not less than 1.5 times the vapor pressure of the contents at 55 C (131 F). N36 - Aluminum or aluminum alloy construction materials are permitted only for halogenated hydrocarbons that will not react with aluminum. T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
Marine pollutant	: No



### 14.3. Additional information

Other information : No supplementary information available.

#### Overland transport

Packing group (ADR)	: III
Class (ADR)	: 6.1 - Toxic substances
Hazard identification number (Kemler No.)	: 60
Classification code (ADR)	: T1
Danger labels (ADR)	: 6.1 - Toxic substances



Orange plates : 

Tunnel restriction code	: E
Limited quantities (ADR)	: 5L
EAC	: •2WE
APP	: A(fl)
Excepted quantities (ADR)	: E1

#### Transport by sea

DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 160

#### Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
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# CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2 ES-5037

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

### 14.4. Environmental hazards

Dangerous for the environment



Other information : No supplementary information available.

### 14.5. Special precautions for user

### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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#### METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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#### BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)

Listed on SARA Section 302 (Specific toxic chemical listings) Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

#### NITROBENZENE-D5 (D, 99%) (4165-60-0)

Listed on SARA Section 302 (Specific toxic chemical listings) Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

#### 2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)

Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

#### 4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (534-52-1 (Unlabeled))

Listed on SARA Section 302 (Specific toxic chemical listings) Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

### 15.2. International regulations

#### CANADA

#### CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (534-52-1 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List) inventory.

# CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2 ES-5037

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### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2()	
U.S. - California - Proposition 65 - Carcinogens List	Yes
State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List WARNING! This product contains a chemical known by the state of California to cause cancer.

METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes				

METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)
U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List WARNING! This product contains a chemical known by the state of California to cause cancer.

BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)
U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List WARNING! This product contains a chemical known by the state of California to cause cancer.

NITROBENZENE-D5 (D, 99%) (4165-60-0)
U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List WARNING! This product contains a chemical known by the state of California to cause cancer, birth defects or other reproductive harm.

2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)
U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (534-52-1 (Unlabeled))
U.S. - New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases::

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
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# CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2 ES-5037

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Acute Tox. 1 (Inhalation)	Acute toxicity (inhalation) Category 1
Acute Tox. 1 (Oral)	Acute toxicity (oral) Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	Flammable liquids Category 3
Muta. 2	Germ cell mutagenicity Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1B	skin corrosion/irritation Category 1B
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
R10	Flammable
R20	Harmful by inhalation
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21	Harmful in contact with skin
R22	Harmful if swallowed
R23	Toxic by inhalation

# CLP SEMI-VOLATILES DMC STOCK SOLUTION 2000 UG/ML IN METHYLENE CHLORIDE-D2 ES-5037

## Safety Data Sheet

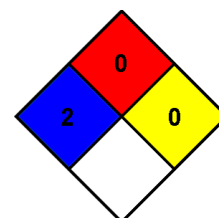
according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R23/25	Toxic by inhalation and if swallowed
R24	Toxic in contact with skin
R24/25	Toxic in contact with skin and if swallowed
R25	Toxic if swallowed
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R28	Very toxic if swallowed
R34	Causes burns
R36	Irritating to eyes
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R37	Irritating to respiratory system
R38	Irritating to skin
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R40	Limited evidence of a carcinogenic effect
R42	May cause sensitization by inhalation
R45	May cause cancer
R46	May cause heritable genetic damage
R48	Danger of serious damage to health by prolonged exposure
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52	Harmful to aquatic organisms
R61	May cause harm to the unborn child
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
R68	Possible risk of irreversible effects
C	Corrosive
N	Dangerous for the environment
T	Toxic
T+	Very toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

### CIL Mixture SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*