



# BASE NEUTRALS MIXTURE-6.2

## 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: 14/05/2015

Revision date:

Version: 1.0

**ES-2003**

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

#### 1.1. Product identifier

Product form : Mixtures  
Product name. : BASE NEUTRALS MIXTURE-6.2  
Product code : ES-2003

#### 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. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Muta. 1B	H340
Carc. 1A	H350
STOT SE 3	H335
STOT SE 3	H336
STOT RE 2	H373
Asp. Tox. 1	H304
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  
Carc.Cat.1; R49  
Carc.Cat.3; R40  
Muta.Cat.1; R46  
F; R11  
T; R39/23/24/25  
Xn; R20/21/22  
Xn; R65  
Xi; R36/38  
N; R50/53

Full text of R-phrases: see section 16

##### Classification (GHS-US)

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Muta. 1B	H340

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Carc. 1A	H350
STOT SE 3	H335
STOT SE 3	H336
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Acute 2	H401
Aquatic Chronic 3	H412

### Adverse physicochemical, human health and environmental effects

Blood, Eyes, Female reproductive system, Bone marrow.

## 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

CHRYSENE (D12, 98%), BENZO[K]FLUORANTHENE (D12, 98%), METHYLENE CHLORIDE-D2 (D, 99.8%), BENZENE-D6 (D, 99.5%), BIS(2-CHLOROETHYL)ETHER (D8, 98%)

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H340 - May cause genetic defects  
H350 - May cause cancer  
H373 - May cause damage to organs (blood, eye, bone marrow, genital organs) 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  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment

### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H340 - May cause genetic defects (Dermal, Inhalation, oral)  
H350 - May cause cancer (Inhalation, Dermal, oral)  
H373 - May cause damage to organs (blood, eye, bone marrow, genital organs) through prolonged or repeated exposure (Dermal, Inhalation, oral)  
H401 - Toxic to aquatic life  
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

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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  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
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  
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)  
P331 - If swallowed, do NOT induce vomiting  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362 - Take off contaminated clothing and wash 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
BENZENE-D6 (D, 99.5%)	(CAS No) 1076-43-3 (EC no) 200-753-7 (EC index no) 601-020-00-8	50.84	F; R11 Xn; R22 Xi; R36/38 Carc.Cat.1; R45 Muta.Cat.1; R46 Carc.Cat.2; R49 N; R51 Xn; R65
METHYLENE CHLORIDE-D2 (D, 99.8%)	(CAS No) 1665-00-5 (EC no) 000-838-9 (EC index no) 602-004-00-3	47.4	Carc.Cat.3; R40 T; R39/23/24/25 Xn; R22 Xi; R36/38
ACENAPHTHENE (D10, 99%)	(CAS No) 15067-26-2 (EC no) 201-469-6	0.22	N; R50/53 Xi; R36/37/38
CHRYSENE (D12, 98%)	(CAS No) 1719-03-5 (EC no) 205-923-4 (EC index no) 601-048-00-0	0.22	Carc.Cat.1; R45 Carc.Cat.1; R49 Muta.Cat.3; R68 N; R50/53
FLUORENE (D10, 98%)	(CAS No) 81103-79-9 (EC no) 201-695-5	0.22	Carc.Cat.1; R45 N; R50/53
PYRENE (D10, 98%)	(CAS No) 1718-52-1 (EC no) 204-927-3	0.22	Xi; R36/38 N; R50/53
BENZO[K]FLUORANTHENE (D12, 98%)	(CAS No) 93952-01-3 (EC no) 205-916-6 (EC index no) 601-036-00-5	0.22	Carc.Cat.1; R45 Xi; R36/38 N; R50/53

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
NAPHTHALENE (D8, 99%)	(CAS No) 1146-65-2 (EC no) 202-049-5 (EC index no) 601-052-00-2	0.22	Carc.Cat.3; R40 Xn; R20/21/22 Xn; R22 N; R50/53
ANTHRACENE (D10, 98%) substance listed as REACH Candidate (Anthracene)	(CAS No) 1719-06-8 (EC no) 204-371-1	0.22	Xi; R36/37/38 N; R50/53
BIS(2-CHLOROETHYL)ETHER (D8, 98%)	(CAS No) 93952-02-4 (EC no) 203-870-1	0.22	R10 Muta.Cat.3; R68 T+; R26/27/28

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BENZENE-D6 (D, 99.5%)	(CAS No) 1076-43-3 (EC no) 200-753-7 (EC index no) 601-020-00-8	50.84	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 Asp. Tox. 1, H304
METHYLENE CHLORIDE-D2 (D, 99.8%)	(CAS No) 1665-00-5 (EC no) 000-838-9 (EC index no) 602-004-00-3	47.4	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
ACENAPHTHENE (D10, 99%)	(CAS No) 15067-26-2 (EC no) 201-469-6	0.22	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CHRYSENE (D12, 98%)	(CAS No) 1719-03-5 (EC no) 205-923-4 (EC index no) 601-048-00-0	0.22	Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
FLUORENE (D10, 98%)	(CAS No) 81103-79-9 (EC no) 201-695-5	0.22	Not classified
PYRENE (D10, 98%)	(CAS No) 1718-52-1 (EC no) 204-927-3	0.22	Not classified
BENZO[K]FLUORANTHENE (D12, 98%)	(CAS No) 93952-01-3 (EC no) 205-916-6 (EC index no) 601-036-00-5	0.22	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 1A, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
NAPHTHALENE (D8, 99%)	(CAS No) 1146-65-2 (EC no) 202-049-5 (EC index no) 601-052-00-2	0.22	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ANTHRACENE (D10, 98%) substance listed as REACH Candidate (Anthracene)	(CAS No) 1719-06-8 (EC no) 204-371-1	0.22	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
BIS(2-CHLOROETHYL)ETHER (D8, 98%)	(CAS No) 93952-02-4 (EC no) 203-870-1	0.22	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Carc. 2, H351

Name	Product identifier	%	Classification (GHS-US)
BENZENE-D6 (D, 99.5%)	(CAS No) 1076-43-3	50.84	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 Asp. Tox. 1, H304 Aquatic Acute 2, H401

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Name	Product identifier	%	Classification (GHS-US)
METHYLENE CHLORIDE-D2 (D, 99.8%)	(CAS No) 1665-00-5	47.4	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
CHRYSENE (D12, 98%)	(CAS No) 1719-03-5	0.22	Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BENZO[K]FLUORANTHENE (D12, 98%)	(CAS No) 93952-01-3	0.22	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 1B, H350 Aquatic Acute 1, H400
NAPHTHALENE (D8, 99%)	(CAS No) 1146-65-2	0.22	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BIS(2-CHLOROETHYL)ETHER (D8, 98%)	(CAS No) 93952-02-4	0.22	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Carc. 2, H351

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 : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- First-aid measures after skin contact : Rinse skin with water/shower. 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 : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell.

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

- Symptoms/injuries : May be fatal if swallowed and enters airways.
- Symptoms/injuries after inhalation : May cause cancer by inhalation.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes eye irritation.
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

### 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 : Vapors may form explosive mixture with air.

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray to cool unopened containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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### 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 vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 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. Discharge into the environment must be avoided.

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

For containment : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

#### 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. In case of leaking gas fire, eliminate all ignition sources if safe to do so.  
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. Use explosion-proof electrical 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

CHRYSENE (D12, 98%) (1719-03-5)		
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.2000000000 mg/m <sup>3</sup> Cancer Substances for which there is a Biological Exposure Index
NAPHTHALENE (D8, 99%) (1146-65-2)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	10.0000000000 ppm Eye & Upper Respiratory Tract irritation. Hematologic effects. Eye damage.
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	15.0000000000 ppm Eye & Upper Respiratory Tract irritation. Hematologic effects. Eye damage.
METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.0000000000 ppm Central Nervous System impairment, Carboxyhemoglobinemia substances (see BEI)
USA OSHA	OSHA PEL (STEL) (ppm)	125.0000000000 ppm
BENZENE-D6 (D, 99.5%) (1076-43-3)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.5000000000 ppm Leukemia Substances for which there is a Biological Exposure Index or Indices.
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	2.5000000000 ppm Leukemia Substances for which there is a Biological Exposure Index or Indices.
USA OSHA	OSHA PEL (TWA) (ppm)	10.0000000000 ppm

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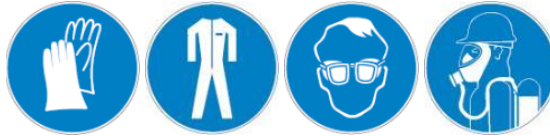
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PYRENE (D10, 98%) (1718-52-1)		
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.2000000000 mg/m <sup>3</sup>
BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5.0000000000 ppm Eye & Upper Respiratory Tract irritation. Nausea.
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	10.0000000000 ppm Eye & Upper Respiratory Tract irritation. Nausea.
USA OSHA	OSHA PEL (TWA) (ppm)	5.0000000000 ppm Skin notation.
USA OSHA	OSHA PEL (STEL) (ppm)	10.0000000000 ppm Skin notation.
ANTHRACENE (D10, 98%) (1719-06-8)		
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.2000000000 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 : When appropriate, use NIOSH/CEN approved respirator.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Appearance : Liquid.  
Color : No data available  
Odor : No data available  
Odor threshold : No data available  
pH : No data available  
Relative evaporation rate (butyl acetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Self ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : Highly flammable liquid and vapor  
Vapor pressure : No data available  
Relative vapor density at 20 °C : No data available  
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 : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vapors may form explosive mixture with air.

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### 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

Avoid Heat, Flames and Sparks. Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Acids, Bases, Halogens, Strong oxidizing agents, Metallic salts.

### 10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

BASE NEUTRALS MIXTURE-6.2	
LD50 oral rat	2990 mg/kg
LD50 dermal rabbit	8263 mg/kg
LC50 inhalation rat (mg/l)	44700 mg/m <sup>3</sup> female - 4 h
ATE (oral)	2990.000 mg/kg body weight
ATE (dermal)	8263.000 mg/kg body weight
ATE (vapors)	44.700 mg/l/4h
ATE (dust, mist)	44.700 mg/l/4h

NAPHTHALENE (D8, 99%) (1146-65-2)	
LD50 oral rat	490.0 mg/kg
LD50 dermal rabbit	20000 mg/kg
LC50 inhalation rat (mg/l)	> 340 mg/m <sup>3</sup> 1 h
ATE (oral)	490.000 mg/kg body weight
ATE (dermal)	20000.000 mg/kg body weight
ATE (dust, mist)	0.050 mg/l/4h

METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)	
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

BENZENE-D6 (D, 99.5%) (1076-43-3)	
LD50 oral rat	2990 mg/kg
LD50 dermal rabbit	8263 mg/kg
LC50 inhalation rat (mg/l)	44700 mg/m <sup>3</sup> female - 4 h
ATE (oral)	2990.000 mg/kg body weight
ATE (dermal)	8263.000 mg/kg body weight
ATE (vapors)	44.700 mg/l/4h
ATE (dust, mist)	44.700 mg/l/4h

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

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



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Skin corrosion/irritation	: Causes skin irritation. Skin - rabbit - Skin irritation
Serious eye damage/irritation	: Causes serious eye irritation. Eyes - rabbit - Eye irritation
Respiratory or skin sensitization	: Not available No data available
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation. May cause drowsiness or dizziness. No data available
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (blood, eye, bone marrow, genital organs) through prolonged or repeated exposure. No data available
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: Harmful if swallowed.
IARC group	: 1
Symptoms/injuries after inhalation	: May cause cancer by inhalation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

## SECTION 12: Ecological information

### 12.1. Toxicity

BASE NEUTRALS MIXTURE-6.2	
LC50 fish 1	5.90 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h
LC50 other aquatic organisms 1	230 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	22.0 mg/l Daphnia magna (Water flea) - 48 h
LC50 fish 2	15 - 32 mg/l Pimephales promelas (Fathead minnow) - 96 h
LC50 other aquatic organisms 2	9.2 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	29.0 mg/l Pseudokirchneriella subcapitata (Green algae) - 72 h
LOEC (acute)	17.2 mg/l Pimephales promelas (Fathead minnow) - 7 d
NOEC (chronic)	10.2 mg/l Pimephales promelas (Fathead minnow) - 7 d
CHRYSENE (D12, 98%) (1719-03-5)	
EC50 Daphnia 1	1.90 mg/l Daphnia magna (Water flea) - 2 h
NAPHTHALENE (D8, 99%) (1146-65-2)	
LC50 fish 1	0.9 - 9.8 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
LC50 other aquatic organisms 1	1 - 6.5 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	1 - 3.4 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	33 mg/l 24 h
LOEC (acute)	3.2 mg/l 3 d
NOEC (acute)	1.8 mg/l 3 d
METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)	
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
BENZENE-D6 (D, 99.5%) (1076-43-3)	
LC50 fish 1	5.90 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h
LC50 other aquatic organisms 1	230 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	22.0 mg/l Daphnia magna (Water flea) - 48 h
LC50 fish 2	15 - 32 mg/l Pimephales promelas (Fathead minnow) - 96 h
LC50 other aquatic organisms 2	9.2 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	29.0 mg/l Pseudokirchneriella subcapitata (Green algae) - 72 h
LOEC (acute)	17.2 mg/l Pimephales promelas (Fathead minnow) - 7 d
NOEC (chronic)	10.2 mg/l Pimephales promelas (Fathead minnow) - 7 d

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<b>ACENAPHTHENE (D10, 99%) (15067-26-2)</b>	
LC50 fish 1	2.2 - 3.1 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
EC50 Daphnia 1	1.27 - 3.45 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	0.52 - 0.53 mg/l Pseudokirchneriella subcapitata (green algae) - 96 h

<b>BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)</b>	
LC50 fish 1	600.00 mg/l - 96 h, Lepomis macrochirus (Bluegill) -
EC50 Daphnia 1	240.00 mg/l - 48 h, Daphnia magna (Water flea) -

<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

### 12.2. Persistence and degradability

<b>BASE NEUTRALS MIXTURE-6.2</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.

<b>CHRYSENE (D12, 98%) (1719-03-5)</b>	
Persistence and degradability	Not available.

<b>BENZO[K]FLUORANTHENE (D12, 98%) (93952-01-3)</b>	
Persistence and degradability	Not available.

<b>NAPHTHALENE (D8, 99%) (1146-65-2)</b>	
Persistence and degradability	Biodegradability: Result: - Not readily biodegradable.

<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
Persistence and degradability	Result: < 30.0 % - Not readily biodegradable.

<b>BENZENE-D6 (D, 99.5%) (1076-43-3)</b>	
Persistence and degradability	Biodegradability Result: - Readily biodegradable.

<b>ACENAPHTHENE (D10, 99%) (15067-26-2)</b>	
Persistence and degradability	Not available.

<b>FLUORENE (D10, 98%) (81103-79-9)</b>	
Persistence and degradability	Not available.

<b>PYRENE (D10, 98%) (1718-52-1)</b>	
Persistence and degradability	Not available.

<b>BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)</b>	
Persistence and degradability	Not available.

<b>ANTHRACENE (D10, 98%) (1719-06-8)</b>	
Persistence and degradability	Not available.

### 12.3. Bioaccumulative potential

<b>CHRYSENE (D12, 98%) (1719-03-5)</b>	
Log Pow	5.73
Bioaccumulative potential	Not available.

<b>BENZO[K]FLUORANTHENE (D12, 98%) (93952-01-3)</b>	
Bioaccumulative potential	Not available.

<b>NAPHTHALENE (D8, 99%) (1146-65-2)</b>	
Log Pow	3.30
Bioaccumulative potential	Bioaccumulation: Fish- Bioconcentration factor (BCF): 427 - 1,158.

<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
Bioaccumulative potential	Not available.

<b>ACENAPHTHENE (D10, 99%) (15067-26-2)</b>	
BCF fish 1	Lepomis macrochirus (Bluegill) - 28d
Bioconcentration factor (BCF REACH)	387
Log Pow	3.39 - 4.19

<b>FLUORENE (D10, 98%) (81103-79-9)</b>	
Bioconcentration factor (BCF REACH)	512
Bioaccumulative potential	Bioaccumulative Potential: Oncorhynchus mykiss (rainbow trout) - 24h.

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<b>PYRENE (D10, 98%) (1718-52-1)</b>	
Bioconcentration factor (BCF REACH)	4810

<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.

### 12.4. Mobility in soil

<b>BASE NEUTRALS MIXTURE-6.2</b>	
Ecology - soil	Not available.

<b>CHRYSENE (D12, 98%) (1719-03-5)</b>	
Ecology - soil	Not available.

<b>BENZO[K]FLUORANTHENE (D12, 98%) (93952-01-3)</b>	
Ecology - soil	Not available.

<b>NAPHTHALENE (D8, 99%) (1146-65-2)</b>	
Ecology - soil	Not available.

<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
Ecology - soil	Not available.

<b>BENZENE-D6 (D, 99.5%) (1076-43-3)</b>	
Ecology - soil	Not available.

<b>ACENAPHTHENE (D10, 99%) (15067-26-2)</b>	
Ecology - soil	Not available.

<b>FLUORENE (D10, 98%) (81103-79-9)</b>	
Ecology - soil	Not available.

<b>PYRENE (D10, 98%) (1718-52-1)</b>	
Ecology - soil	Not available.

<b>BIS(2-CHLOROETHYL)ETHER (D8, 98%) (93952-02-4)</b>	
Ecology - soil	Not available.

<b>ANTHRACENE (D10, 98%) (1719-06-8)</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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

## 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.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No.(DOT) : 1114  
DOT NA no. UN1114

### 14.2. UN proper shipping name

DOT Proper Shipping Name : Benzene  
Department of Transportation (DOT) Hazard Classes : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

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Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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.  
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

### 14.3. Additional information

Other information : No supplementary information available.

#### Overland transport

Packing group (ADR) : II

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 33

Classification code (ADR) : F1

Danger labels (ADR) : 3 - Flammable liquids



Orange plates : 

Tunnel restriction code : D/E

Limited quantities (ADR) : 1L

EAC : 3WE

APP : A(fl)

Excepted quantities (ADR) : E2

#### Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

MFAG-No : 130

#### Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

Civil Aeronautics Law : Flammable liquids

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### 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

#### BASE NEUTRALS MIXTURE-6.2

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
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#### CHRYSENE (D12, 98%) (1719-03-5)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
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#### BENZO[K]FLUORANTHENE (D12, 98%) (93952-01-3)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
-------------------------------------	--

#### NAPHTHALENE (D8, 99%) (1146-65-2)

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
-------------------------------------	---

#### METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
-------------------------------------	--

#### BENZENE-D6 (D, 99.5%) (1076-43-3)

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
-------------------------------------	---

#### 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
-------------------------------------	---

### 15.2. International regulations

#### CANADA

#### BASE NEUTRALS MIXTURE-6.2

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

#### CHRYSENE (D12, 98%) (1719-03-5)

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

#### BENZO[K]FLUORANTHENE (D12, 98%) (93952-01-3)

Not listed on the Canadian DSL (Domestic Substances List) inventory.

#### NAPHTHALENE (D8, 99%) (1146-65-2)

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

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### BENZENE-D6 (D, 99.5%) (1076-43-3)

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.

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

##### BASE NEUTRALS MIXTURE-6.2()

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, birth defects or other reproductive harm.
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##### 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				

##### CHRYSENE (D12, 98%) (1719-03-5)

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.

##### BENZO[K]FLUORANTHENE (D12, 98%) (93952-01-3)

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.

##### NAPHTHALENE (D8, 99%) (1146-65-2)

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. - 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.

##### BENZENE-D6 (D, 99.5%) (1076-43-3)

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.

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

U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) List

# BASE NEUTRALS MIXTURE-6.2 ES-2003

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

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.

## 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 (Inhalation)	Acute toxicity (inhalation) Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) 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 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Sol. 1	Flammable solids Category 1
Muta. 1B	Germ cell mutagenicity Category 1B
Muta. 2	Germ cell mutagenicity Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H228	Flammable solid
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
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
H412	Harmful to aquatic life with long lasting effects
R10	Flammable
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and 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

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R45	May cause cancer
R46	May cause heritable genetic damage
R49	May cause cancer by inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51	Toxic to aquatic organisms
R65	Harmful: may cause lung damage if swallowed
R68	Possible risk of irreversible effects
F	Highly flammable
N	Dangerous for the environment
T	Toxic
T+	Very toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard

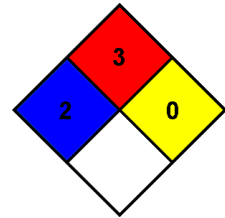
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

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

: 3 Serious Hazard

Physical

: 0 Minimal Hazard

CIL Multi-Solvent 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*