

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : 8270 Additions Mix 5  
Product code : AL0-180109

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Phenova  
6390 Joyce Dr. Suite 100  
Golden, CO 80403 - United States  
T 1-866-942-2978 - F 1-866-283-0269  
[info@phenova.com](mailto:info@phenova.com) - [www.phenova.com](http://www.phenova.com)

#### 1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924  
ChemTel Assistance (International) +1 813-248-0585

### SECTION 2: Hazard(s) identification

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

##### GHS US classification

Flammable liquids Category 4	H227	Combustible liquid
Carcinogenicity Category 1B	H350	May cause cancer

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H227 - Combustible liquid  
H350 - May cause cancer

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, sparks, open flames and other ignition sources. No smoking.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

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Name	Product identifier	Conc.
Methylene Chloride (Component)	(CAS-No.) 75-09-2	99.5
2,3,4,5-tetrachlorophenol (Component)	(CAS-No.) 4901-51-3	0.1
benzophenone (Component)	(CAS-No.) 119-61-9	0.1
Benzal Chloride (Component)	(CAS-No.) 98-87-3	0.1
tris(2,3-dibromopropyl) phosphate (Component)	(CAS-No.) 126-72-7	0.1

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
- First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

#### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- 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

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

- Methods for cleaning up : Take up in absorbent material. Collect spillage.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
- Hygiene measures : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

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

- Storage conditions : Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.
- Incompatible materials : Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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ACGIH	Local name	Dichloromethane
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	COHb-emia; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	Remark (OSHA)	(2) See Table Z-2.
OSHA	Regulatory reference (US-OSHA)	OSHA
2,3,4,5-tetrachlorophenol (4901-51-3)		
Not applicable		
benzophenone (119-61-9)		
Not applicable		
Benzal Chloride (98-87-3)		
Not applicable		
tris(2,3-dibromopropyl) phosphate (126-72-7)		
Not applicable		
Methylene Chloride (75-09-2)		
ACGIH	Local name	Dichloromethane
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	COHb-emia; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	Remark (OSHA)	(2) See Table Z-2.
OSHA	Regulatory reference (US-OSHA)	OSHA

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.

##### Hand protection:

Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration

##### Eye protection:

Chemical goggles or safety glasses. Safety glasses

##### Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

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### Respiratory protection:

Wear appropriate mask

### Personal protective equipment symbol(s):



### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
	: Colorless
	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

No additional information available

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### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>2,3,4,5-tetrachlorophenol (4901-51-3)</b>	
LD50 oral rat	140 mg/kg (Rat, Oral)
ATE US (oral)	140 mg/kg body weight

<b>benzophenone (119-61-9)</b>	
LD50 oral rat	> 10000 mg/kg (Rat)
LD50 dermal rabbit	3535 mg/kg (Rabbit)
ATE US (dermal)	3535 mg/kg body weight

<b>Benzal Chloride (98-87-3)</b>	
LD50 oral rat	1400 mg/kg (Rat, Experimental value, Oral)
LC50 inhalation rat (mg/l)	4.5 mg/l (4 h, Rat, Experimental value, Inhalation (vapours))
ATE US (oral)	1400 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	4.5 mg/l/4h
ATE US (dust, mist)	4.5 mg/l/4h

<b>tris(2,3-dibromopropyl) phosphate (126-72-7)</b>	
LD50 oral rat	> 1010 mg/kg (Rat)
LD50 dermal rabbit	> 8000 mg/kg (Rabbit)

<b>Methylene Chloride (75-09-2)</b>	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met  
Carcinogenicity : May cause cancer.

<b>benzophenone (119-61-9)</b>	
IARC group	2B - Possibly carcinogenic to humans

<b>Benzal Chloride (98-87-3)</b>	
IARC group	2A - Probably carcinogenic to humans

<b>tris(2,3-dibromopropyl) phosphate (126-72-7)</b>	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

<b>Methylene Chloride (75-09-2)</b>	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

Reproductive toxicity : Not classified  
Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>benzophenone (119-61-9)</b>	
LC50 fish 1	15.3 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	0.27 mg/l (EC50; 24 h)
LC50 fish 2	15.3 mg/l (LC50; 96 h)
ErC50 (algae)	3.5 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

<b>tris(2,3-dibromopropyl) phosphate (126-72-7)</b>	
LC50 fish 1	1.45 mg/l (96 h, Salmo gairdneri)

<b>Methylene Chloride (75-09-2)</b>	
LC50 fish 1	193 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	168.2 mg/l (48 h, Daphnia magna)

#### 12.2. Persistence and degradability

<b>8270 Additions Mix 5</b>	
Persistence and degradability	Not established.

<b>2,3,4,5-tetrachlorophenol (4901-51-3)</b>	
Persistence and degradability	Biodegradability in soil: no data available. Not readily biodegradable in water.

<b>benzophenone (119-61-9)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil.
BOD (% of ThOD)	0.12

<b>Benzal Chloride (98-87-3)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	1.689 g O <sub>2</sub> /g substance

<b>tris(2,3-dibromopropyl) phosphate (126-72-7)</b>	
Persistence and degradability	Not readily biodegradable in water.

<b>Methylene Chloride (75-09-2)</b>	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.

#### 12.3. Bioaccumulative potential

<b>8270 Additions Mix 5</b>	
Bioaccumulative potential	Not established.

<b>2,3,4,5-tetrachlorophenol (4901-51-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.21 – 5.16
Bioaccumulative potential	No bioaccumulation data available.

<b>benzophenone (119-61-9)</b>	
BCF fish 1	3.4 – 12 (BCF)
Partition coefficient n-octanol/water (Log Pow)	3.18 – 3.38
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

<b>Benzal Chloride (98-87-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.22 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>tris(2,3-dibromopropyl) phosphate (126-72-7)</b>	
BCF fish 1	0.7 – 4.3 (Cyprinus carpio, Test duration: 6 weeks)
Partition coefficient n-octanol/water (Log Pow)	1.75 – 4.29

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<b>Methylene Chloride (75-09-2)</b>	
BCF fish 1	2 – 40 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Semi-static system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	1.25 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

<b>benzophenone (119-61-9)</b>	
Surface tension	0.042 N/m (50 °C)
Ecology - soil	Low potential for mobility in soil.

<b>Benzal Chloride (98-87-3)</b>	
Surface tension	40.1 mN/m (20 °C)
Ecology - soil	No (test)data on mobility of the substance available.

<b>Methylene Chloride (75-09-2)</b>	
Surface tension	0.028 N/m (20 °C)
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.

### 12.5. Other adverse effects

<b>8270 Additions Mix 5</b>	
<b>2,3,4,5-tetrachlorophenol (4901-51-3)</b>	
<b>benzophenone (119-61-9)</b>	
<b>Benzal Chloride (98-87-3)</b>	
<b>tris(2,3-dibromopropyl) phosphate (126-72-7)</b>	
<b>Methylene Chloride (75-09-2)</b>	

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2810 Toxic, liquids, organic, n.o.s. (dichloromethane ; 2,3,4,5-tetrachlorophenol ; ; tris(2,3-dibromopropyl) phosphate), 6.1, III  
UN-No.(DOT) : UN2810  
Proper Shipping Name (DOT) : Toxic, liquids, organic, n.o.s.  
dichloromethane ; 2,3,4,5-tetrachlorophenol ; ; tris(2,3-dibromopropyl) phosphate  
Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132  
Packing group (DOT) : III - Minor Danger

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Hazard labels (DOT) : 6.1 - Poison



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

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).

T7 - 4 178.274(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.

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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

Emergency Response Guide (ERG) Number : 153

Other information : No supplementary information available.

### Transportation of Dangerous Goods

Not applicable

### Transport by sea

Transport document description (IMDG) : UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (dichloromethane ; 2,3,4,5-tetrachlorophenol ; a,a-Dichlorotoluene ; tris(2,3-dibromopropyl) phosphate), 6.1, III

UN-No. (IMDG) : 2810

Proper Shipping Name (IMDG) : TOXIC LIQUID, ORGANIC, N.O.S.

Class (IMDG) : 6.1 - Toxic substances

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

### Air transport

Transport document description (IATA) : UN 2810 Toxic liquid, organic, n.o.s. (dichloromethane ; 2,3,4,5-tetrachlorophenol ; ; tris(2,3-dibromopropyl) phosphate), 6.1, III

UN-No. (IATA) : 2810

Proper Shipping Name (IATA) : Toxic liquid, organic, n.o.s.

Class (IATA) : 6.1 - Toxic Substances

Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

tris(2,3-dibromopropyl) phosphate

CAS-No. 126-72-7

0.1%



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<b>2,3,4,5-tetrachlorophenol (4901-51-3)</b>	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>benzophenone (119-61-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.
<b>Benzal Chloride (98-87-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	5000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb
<b>tris(2,3-dibromopropyl) phosphate (126-72-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
EPA TSCA Regulatory Flag	S - S - indicates a substance that is identified in a final Significant New Use Rule.
CERCLA RQ	10 lb
<b>Methylene Chloride (75-09-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
Listed on EPA Hazardous Air Pollutant (HAPS)	
EPA TSCA Regulatory Flag	R - R - indicates a substance that is the subject of a TSCA section 6 risk management rule.
CERCLA RQ	1000 lb

### 15.2. International regulations

#### CANADA

<b>2,3,4,5-tetrachlorophenol (4901-51-3)</b>	
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)	
<b>benzophenone (119-61-9)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Benzal Chloride (98-87-3)</b>	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
<b>tris(2,3-dibromopropyl) phosphate (126-72-7)</b>	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
<b>Methylene Chloride (75-09-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	

#### EU-Regulations

No additional information available

#### National regulations

<b>benzophenone (119-61-9)</b>	
Listed on IARC (International Agency for Research on Cancer)	
<b>Benzal Chloride (98-87-3)</b>	
Listed on IARC (International Agency for Research on Cancer)	
<b>tris(2,3-dibromopropyl) phosphate (126-72-7)</b>	
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)	
<b>Methylene Chloride (75-09-2)</b>	
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on EPA Hazardous Air Pollutant (HAPS)	

### 15.3. US State regulations

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<b>benzophenone (119-61-9)</b>					
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 significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		
<b>tris(2,3-dibromopropyl) phosphate (126-72-7)</b>					
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 significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.3 µg/day	
<b>Methylene Chloride (75-09-2)</b>					
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 significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	50 µg/day	

### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases:

H227	Combustible liquid
H350	May cause cancer

Phenova US SDS REV

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