

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 07/05/2019 Revision date: 07/05/2019 Version: 1.0

# **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : Custom Semi Volatiles Mix

Product code : AL0-130806

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

1.4. Emergency telephone number

No additional information available

# SECTION 2: Hazard(s) identification

## 2.1. Classification of the substance or mixture

## **GHS-US** classification

Carcinogenicity Category H350 May cause cancer

1B

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) : H350 - May cause cancer

Precautionary statements (GHS-US) : P403+P235 - Store in a well-ventilated place. Keep cool.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 - If exposed or concerned: Get medical advice/attention.

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

WEI MINISTER				
Name	Product identifier	Conc.		
Methylene Chloride (Component)	(CAS-No.) 75-09-2	99.4		
pentachloroethane (Component)	(CAS-No.) 76-01-7	0.1		

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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 victim 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.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Hygiene measures

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.

oi va

: 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.

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Incompatible materials : Direct sunlight.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Custom Semi Volatiles Mix			
ACGIH	Local name	Dichloromethane	
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	

## pentachloroethane (76-01-7)

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

# 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

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· Colorless

: characteristic

Odor threshold No data available : No data available pН

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

: Non flammable. Flammability (solid, gas)

Vapor pressure : No data available : No data available

Relative vapor density at 20 °C Relative density : No data available

Solubility : No data available

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

No data available Viscosity, kinematic

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.

Direct sunlight. Extremely high or low temperatures.

### Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

No additional information available

Germ cell mutagenicity

# **SECTION 11: Toxicological information**

# Information on toxicological effects

Acute toxicity : Not classified

Methylene Chloride (75-09-2)	
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

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

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Carcinogenicity : May cause cancer.

pentachloroethane (76-01-7)			
IARC group 3 - Not classifiable			
Methylene Chloride (75-09-2)			
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

Specific target organ toxicity - single exposure : Not classified

Specific target organ toxicity – repeated

exposure

: Not classified

Aspiration hazard : Not classified

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

pentachloroethane (76-01-7)	
LC50 fish 1	7 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 other aquatic organisms 1	134 mg/l (96 h; Selenastrum capricornutum; Cell numbers)
Methylene Chloride (75-09-2)	
Methylene Chloride (75-09-2) LC50 fish 1	193 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)

# 12.2. Persistence and degradability

Custom Semi Volatiles Mix				
Persistence and degradability	Not established.			
pentachloroethane (76-01-7)				
Persistence and degradability Not readily biodegradable in water.				
Methylene Chloride (75-09-2)				
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.			

# 12.3. Bioaccumulative potential

Custom Semi Volatiles Mix				
Bioaccumulative potential	Not established.			
pentachloroethane (76-01-7)				
BCF fish 1	60 - 68 (BCF; 672 h)			
BCF fish 2	67 (BCF; 336 h)			
Log Pow	2.89 - 3.67 (Experimental value)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			
Methylene Chloride (75-09-2)				
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)			
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

Methylene Chloride (75-09-2)	
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.

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## 12.5. Other adverse effects

Custom Semi Volatiles Mix	
pentachloroethane (76-01-7)	
Methylene Chloride (75-09-2)	

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), 6.1, III

UN-No.(DOT) : UN2810

Proper Shipping Name (DOT) : Toxic, liquids, organic, n.o.s.

dichloromethane

Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

: 203

Packing group (DOT) : III - Minor Danger Hazard labels (DOT) : 6.1 - Poison



DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

**DOT Symbols** DOT Special Provisions (49 CFR 172.102) : G - Identifies PSN requiring a technical name

: 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 - 4 178.27 $\dot{4}$ (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) DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

**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

Other information : No supplementary information available.

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### **Transportation of Dangerous Goods**

Not applicable

### Transport by sea

Transport document description (IMDG) : UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (dichloromethane), 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

Air transport

Transport document description (IATA) : UN 2810 Toxic liquid, organic, n.o.s. (dichloromethane), 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

pentachloroethane (76-01-7)			
Listed on the United States TSCA (Toxic	,		
Subject to reporting requirements of Uni	ted 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		
Methylene Chloride (75-09-2)			
Listed on the United States TSCA (Toxic Subject to reporting requirements of United States TSCA)			
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

# pentachloroethane (76-01-7)

Listed on the Canadian DSL (Domestic Substances List)

# Methylene Chloride (75-09-2)

Listed on the Canadian DSL (Domestic Substances List)

## **EU-Regulations**

No additional information available

# National regulations

# Methylene Chloride (75-09-2)

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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Methylene Chloride (75-09-2)					
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

Revision date : 07/05/2019

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:

H350	May cause cancer
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### Phenova US SDS REV

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