

Diphenyl Ether Mix Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/20/2019 Revision date: 02/20/2019 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Mixture		
Product name	: Diphenyl Ether Mix		
Product code	: AL0-130652		
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 - www.phenova.com			
1.4. Emergency telephone number			
Emergency number	: ChemTel Assistance (US/Canada) 1-800-255-39. ChemTel Assistance (International) +1 813-248-0		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or m	ixture		
GHS-US classification			
Carcinogenicity Category H350 1B	May cause cancer		
Full text of H statements : see section 16			
2.2. GHS Label elements, including preca GHS-US labeling	autionary statements		
Hazard pictograms (GHS-US)			
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H350 - May cause cancer		
Precautionary statements (GHS-US)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions I P280 - Wear protective gloves/protective clothing P308+P313 - If exposed or concerned: Get medic P405 - Store locked up. P501 - Dispose of contents/container to hazardou accordance with local, regional, national and/or ir 	/eye protection/face protection. cal advice/attention. us or special waste collection poir	nt, in
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	n on ingredients		
3.1. Substances			
Not applicable			
3.2. Mixtures			
Name		Product identifier	Conc.

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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	s (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 spec	cial treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishir	ng media
	: Use extinguishing media appropriate for surrounding fire.
	Do not use a heavy water stream.
5.2. Specific hazards arising from the che	mical
No additional information available	
5.3. Special protective equipment and pre	cautions for fire-fighters
	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 measu	Iros
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equi	
6.1.Personal precautions, protective equi6.1.1.For non-emergency personnel	pment and emergency procedures
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 6.1. Personal precautions, protective equit 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify a 6.3. Methods and material for containment Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and personal p SECTION 7: Handling and storage 7.1. Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, including 	 pment and emergency procedures Evacuate unnecessary personnel. Equip cleanup crew with proper protection. Ventilate area. authorities if liquid enters sewers or public waters. t and cleaning up Take up in absorbent material. Collect spillage. rotection. 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. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing before reuse.

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Incompatible materials

: Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters		
Diphenyl Ether Mix		
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
Methylene Chloride (75-09-2	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 che	nical properties
9.1. Information on basic physi	l and chemical properties
Physical state	: Liquid
Color	: Colorless
Odor	: characteristic

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	=
Odor threshold	: No data available
рН	: 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
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

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 temperature	PS.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
11.1. Information on toxicological effects	: Not classified
11.1. Information on toxicological effects	
11.1. Information on toxicological effects Acute toxicity	
11.1.Information on toxicological effectsAcute toxicityMethylene Chloride (75-09-2)	 Not classified > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental
11.1. Information on toxicological effects Acute toxicity Methylene Chloride (75-09-2) LD50 oral rat LD50 dermal rat	 Not classified > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female,
11.1. Information on toxicological effects Acute toxicity Methylene Chloride (75-09-2) LD50 oral rat LD50 dermal rat	 Not classified > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)
11.1. Information on toxicological effects Acute toxicity Methylene Chloride (75-09-2) LD50 oral rat LD50 dermal rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	 Not classified > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal) > Not classified Not classified Not classified Not classified
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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.

Methylene Chloride (75-09-2)	
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)
2.2. Persistence and degradability	
Diphenyl Ether Mix	
Persistence and degradability	Not established.
Methylene Chloride (75-09-2)	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.
2.3. Bioaccumulative potential	
Diphenyl Ether Mix	
Bioaccumulative potential	Not established.
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).
I2.4. 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.

Other information

: Avoid release to the environment.

SECTION 13: Disposal consideration	IS
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.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description UN-No.(DOT) Proper Shipping Name (DOT)

Class (DOT) Packing group (DOT) Hazard labels (DOT)

: UN2810 Toxic, liquids, organic, n.o.s. (dichloromethane), 6.1, III : UN2810

: Toxic, liquids, organic, n.o.s.

dichloromethane

: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

: G - Identifies PSN requiring a technical name

- : III Minor Danger
- : 6.1 Poison



- DOT Packaging Non Bulk (49 CFR 173.xxx)
- : 203 : 241
- DOT Packaging Bulk (49 CFR 173.xxx)
- DOT Symbols
- DOT Special Provisions (49 CFR 172.102)
- (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). 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 : 60 L DOT Quantity Limitations Cargo aircraft only (49 : 220 L

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

CFR 175.75)

(49 CFR 173.27)

- DOT Vessel Stowage Location
- 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-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG)	 : UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III : 2810 : TOXIC LIQUID, ORGANIC, N.O.S. : 6.1 - Toxic substances : III - substances presenting low danger
Air transport	

Transport document description (IATA)	: UN 2810 Toxic liquid, organic, n.o.s., 6.1, III
UN-No. (IATA)	: 2810
Proper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.

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Class (IATA)	:
Packing group (IATA)	:

: 6.1 - Toxic Substances : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Methylene Chloride (75-09-2)			
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

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

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 in	formation
Revision date	: 02/20/2019
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

Phenova US SDS REV

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