

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: Identifica	ation	
1.1. Identification		
Product form		: Mixture
Product name		: SIM PAH Spike Mix
Product code		: AL0-130778
1.2. Recommended u	se and restrictions	s on use
No additional information av	ailable	
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 telep	hone number	
No additional information av	ailable	
SECTION 2: Hazard(s	s) identification	
	the substance or r	
GHS-US classification		
Flammable liquids	H225	Highly flammable liquid and vapour
Category 2	11010	
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Carcinogenicity Category	H350	May cause cancer
1B Specific torget organ	11226	May aques drawsinges or dizzinges
Specific target organ toxicity (single exposure) Category 3	H336	May cause drowsiness or dizziness
Full text of H statements : se	ee section 16	
2.2. GHS Label eleme	ents, including pre	cautionary statements
GHS-US labeling	3	
Hazard pictograms (GHS-U	S)	
		· · · · · · · · · · · · · · · · · · ·
Signal word (GHS-US)	2)	: Danger
Hazard statements (GHS-U	5)	: H225 - Highly flammable liquid and vapour H319 - Causes serious eye irritation
		H336 - May cause drowsiness or dizziness
		H350 - May cause cancer
Precautionary statements (0	GHS-US)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
		smoking. D222 Kaap container tightly closed
		P233 - Keep container tightly closed. P261 - Avoid breathing dust/fume/gas/mist/vapors/sprav

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep 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.

- P337+P313 If eye irritation persists: 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

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accordance with local, regional, national and/or international regulation

	accordance with local, regional, national and/or	nternational 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 on ingredients			
3.1. Substances				
Not applicable				
3.2. Mixtures				
Name		Product identifier	Conc.	
acetone		(CAS-No.) 67-64-1	98.9964	
(Component) Methylene Chloride		(CAS-No.) 75-09-2	1	
(Component)		(0.10-10.) 70-00-2		
Full text of hazard classes and H-statements : s	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 medical advice/attention.	s person. IF exposed or concerne	ed: Get	
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 n persists.	nedical attention if pain, blinking	or redness	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain e	mergency medical attention.		
4.2. Most important symptoms and effe	ects (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 s	pecial treatment, if necessary			
No additional information available				
SECTION 5: Fire-fighting measures				
5.1. Suitable (and unsuitable) extinguis	hing media			
Suitable extinguishing media	: Use extinguishing media appropriate for surroun	ding fire.		
Unsuitable extinguishing media	: Do not use a heavy water stream.	Do not use a heavy water stream.		
5.2. Specific hazards arising from the o	hemical			
No additional information available				
5.3. Special protective equipment and	precautions for fire-fighters			
Firefighting instructions	: Use water spray or fog for cooling exposed cont chemical fire. Prevent fire-fighting water from en	ainers. Exercise caution when fig tering environment.	hting any	
Protection during firefighting				
SECTION 6: Accidental release mea	asures			
6.1. Personal precautions, protective e	quipment 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				
	fy authorities if liquid enters sewers or public waters.			

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

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6.3. Methods and material for containmen	t and cleaning up		
ethods for cleaning up : Take up in absorbent material. Collect spillage.			
6.4. Reference to other sections			
See Heading 8. Exposure controls and personal p	rotection.		
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

SIM PAH Spike Mix		
	Local name	Acetone
	ACGIH TWA (ppm)	250 ppm
ACGIH	ACGIH STEL (ppm)	500 ppm
ACGIH	Remark (ACGIH)	eye irr; CNS impair; BEI
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	2400 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
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
acetone (67-64-1)		
ACGIH	Local name	Acetone
ACGIH	ACGIH TWA (ppm)	250 ppm
ACGIH	ACGIH STEL (ppm)	500 ppm
ACGIH	Remark (ACGIH)	eye irr; CNS impair; BEI
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	2400 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA

8.2. Appropriate engineering controls

Appropriate engineering controls

: Either local exhaust or general room ventilation is usually required.

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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 chemica	l properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
	: Colorless
	: characteristic
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

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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	28.	
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
No additional information available		
SECTION 11: Toxicological informati	on	
11.1. 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)	
acetone (67-64-1)		
LD50 oral rat	5800 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)	
LD50 dermal rabbit	20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)	
LC50 inhalation rat (mg/l)	76 mg/l (Other, 4 h, Rat, Female, Experimental value, Inhalation (vapours))	
ATE US (oral)	5800 mg/kg body weight	
ATE US (dermal)	20000 mg/kg body weight	
ATE US (vapors)	76 mg/l/4h	
ATE US (dust, mist)	76 mg/l/4h	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye irritation.	
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.	
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 toxisity	: May cause drowsiness or dizziness.	
Specific target organ toxicity – single exposure	. Way cause UIUWSHIESS UI UIZZIHESS.	
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.	

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SECTION 12: Ecological informati	ion		
SECTION 12: Ecological informati			
2.1. Toxicity			
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)		
acetone (67-64-1)			
LC50 fish 1	5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration)		
2.2. Persistence and degradability			
SIM PAH Spike Mix			
Persistence and degradability	Not established.		
Methylene Chloride (75-09-2)			
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.		
acetone (67-64-1)			
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily		
	biodegradable in water.		
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance		
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance		
ThOD	2.2 g O ₂ /g substance		
BOD (% of ThOD)	DD (% of ThOD) 0.872 (20 day(s), Literature study)		
2.3. Bioaccumulative potential			
SIM PAH Spike 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).		
acetone (67-64-1)			
BCF fish 1	0.69 (Pisces)		
BCF other aquatic organisms 1	3 (BCFWIN, Calculated value)		
Log Pow	-0.24 (Test data)		
Bioaccumulative potential	Not bioaccumulative.		
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.		
acetone (67-64-1)			
Surface tension	0.0237 N/m		
Ecology - soil	No (test)data on mobility of the substance available.		
12.5. Other adverse effects			
SIM PAH Spike Mix			
Methylene Chloride (75-09-2)			

acetone (67-64-1)

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Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	S
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	: UN1993 Flammable liquids, n.o.s. (acetone ; dichloromethane), 3, II
UN-No.(DOT)	: UN1993
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.
	acetone ; dichloromethane
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 3 - Flammable liquid
	PLANAARE LIQUD
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
OOT Symbols	: G - Identifies PSN requiring a technical name
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. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
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.
Emergency Response Guide (ERG) Number	: 128
Other information	No supplementary information available.
Fransportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not regulated	
not regulated	

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Air transport

Not regulated

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		
acetone (67-64-1)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313			
ERCLA RQ 5000 lb			

15.2. International regulations

CANADA

Methylene Chloride (75-09-2) Listed on the Canadian DSL (Domestic Substances List)

acetone (67-64-1)

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 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 to statil a base of		

Full text of H-phrases:

H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer

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