

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/04/2019 Revision date: 11/04/2019 Version: 1.0

SECTION 1: Identifica	ation	
1.1. Identification		
Product form		: Mixture
Product name		: Deuterated VOA Mix
Product code		: AL0-130841
1.2. Recommended us	se and restrictions o	n use
No additional information ava	ailable	
1.3. Supplier		
Phenova 6390 Joyce Dr. Suite 100 Golden, CO 80403 - United S T 1-866-942-2978 - F 1-866- info@phenova.com - www.pl	283-0269	
1.4. Emergency telepl	hone 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 t	the substance or mix	kture
GHS US classification		
Flammable liquids	H225	Highly flammable liquid and vapour
Category 2	11004	
Acute toxicity (oral) Category 3	H301	Toxic if swallowed
Acute toxicity (dermal) Category 3	H311	Toxic in contact with skin
Specific target organ toxicity (single exposure) Category 1	H370	Causes damage to organs
Full text of H statements : se	e section 16	
	-	
	nts, including preca	utionary statements
GHS US labeling		
Hazard pictograms (GHS US	\$)	
Signal word (GHS US)		: Danger
Hazard statements (GHS US	3)	: H225 - Highly flammable liquid and vapour H301+H311 - Toxic if swallowed or in contact with skin
Precautionary statements (G	HS US)	 H370 - Causes damage to organs P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P233 - Keep container tightly closed. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P270 - Do not eat, drink or smoke when using this product.
		P280 - Wear protective gloves/protective clothing/eye protection/face protection.
		P301+P310 - If swallowed: Immediately call a poison center or doctor
		P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
		P308+P313 - If exposed or concerned: Get medical advice/attention.
		P361+P364 - Take off immediately all contaminated clothing and wash it before reuse. 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
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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	6	
3.1. Substances		
Not applicable		
3.2. Mixtures		
Name	Product identifier	Conc.
methanol (Component)	(CAS-No.) 67-56-1	99.97

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. Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Specific treatment (see supplemental first aid instruction on this label).	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
First-aid measures after skin contact	 Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Specific measures (see supplemental first aid instruction on this label). 	
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician. Specific treatment (see supplemental first aid instruction on this label).	
4.2. Most important symptoms and effects	s (acute and delayed)	
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin. Based on available data, the classification criteria are not met.	
Symptoms/effects	: May cause genetic defects. Causes damage to organs.	
Symptoms/effects after inhalation	: May cause cancer by inhalation.	
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.	
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.	
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	ng media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Specific hazards arising from the chemical		
Fire hazard	: Extremely flammable liquid and vapour.	
Explosion hazard	: May form flammable/explosive vapor-air mixture.	
5.3. Special protective equipment and precautions 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.	

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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 open flames. No smoking.		
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. Avoid breathing dust/fume/gas/mist/vapors/spray.		
Emergency procedures	: Ventilate area.		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters. Avoid release to the environment.		
6.3. Methods and material for containme	nt and cleaning up		
Methods for cleaning up	: Take up in absorbent material. Collect spillage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials.		
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			
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.		
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. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Do not breathe dust/fume/gas/mist/vapors/spray.		
Hygiene measures	: Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Wash hands, forearms and face thoroughly after handling.		
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures	: Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.		
Storage conditions	: Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source. Keep only in the original container in a cool, well ventilated place away from :		
Incompatible products	: Strong bases. Strong acids.		
Incompatible materials	: Direct sunlight. Heat sources. Sources of ignition.		

SECTION 8: Exposure controls/personal protection

3.1. Control parameters		
Deuterated VOA Mix		
ACGIH	Local name	Methanol
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	250 ppm
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
methanol (67-56-1)		
ACGIH	Local name	Methanol
ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)

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methanol (67-56-1)		
ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	200 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.

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. Wear protective gloves.

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:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

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	d 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)	: Extremely flammable liquid and vapour.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available

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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
Explosion minus Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactive	vity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
	/ form flammable/explosive vapor-air mixture.
10.3. Possibility of hazardous reactio Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low tempe	ratures. Sparks. Heat. Overheating. Open flame.
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition prod	ucts
May release flammable gases. fume. Carbo	
SECTION 11: Toxicological infor	
11.1. Information on toxicological eff	
Acute toxicity	: Not classified
Deuterated VOA Mix	
ATE US (oral)	100.03 mg/kg body weight
ATE US (dermal)	300.09 mg/kg body weight
methanol (67-56-1)	
LD50 oral rat	
	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of
	evidence)
LD50 dermal rabbit	evidence) 15800 mg/kg (Rabbit; Literature study)
LD50 dermal rabbit LC50 inhalation rat (mg/l)	evidence) 15800 mg/kg (Rabbit; Literature study) 85 mg/l/4h (Rat; Literature study)
LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm)	evidence) 15800 mg/kg (Rabbit; Literature study) 85 mg/l/4h (Rat; Literature study) 64000 ppm/4h (Rat; Literature study)
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LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE US (oral) ATE US (dermal) ATE US (dermal) ATE US (gases) ATE US (vapors) ATE US (dust, mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	evidence)15800 mg/kg (Rabbit; Literature study)85 mg/l/4h (Rat; Literature study)64000 ppm/4h (Rat; Literature study)100 mg/kg body weight300 mg/kg body weight700 ppmV/4h3 mg/l/4h0.5 mg/l/4h: Not classified: Not classified

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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin. Based on available data, the classification criteria are not met.
Symptoms/effects	: May cause genetic defects. Causes damage to organs.
Symptoms/effects after inhalation	: May cause cancer by inhalation.
Symptoms/effects after skin contact	 Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - air	: Dangerous for the ozone layer.	
Ecology - water	: Harmful to aquatic life with long lasting effects.	
methanol (67-56-1)		
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)	
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)	
12.2. Persistence and degradability		
Deuterated VOA Mix		
Persistence and degradability	May cause long-term adverse effects in the environment. Not established.	
methanol (67-56-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance	
ThOD	1.5 g O ₂ /g substance	
BOD (% of ThOD)	0.8 (Literature study)	
12.3. Bioaccumulative potential		
Deuterated VOA Mix		
Bioaccumulative potential	Not established.	
methanol (67-56-1)		
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)	
Log Pow	-0.77 (Experimental value; Other)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
12.4. Mobility in soil		
methanol (67-56-1)		
Surface tension	0.023 N/m (20 °C)	
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value	

12.5. Other adverse effects

Deuterated VOA Mix		
methanol (67-56-1)		

Other information

: Avoid release to the environment.

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SECTION 13: Disposal considerations			
13.1. Disposal methods			
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.		
Additional information	: Handle empty containers with care because residual vapors are flammable.		
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.		
SECTION 14: Transport information			
Department of Transportation (DOT) In accordance with DOT			
Transport document description	: UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II		
UN-No.(DOT)	: UN1992		
Proper Shipping Name (DOT)	: Flammable liquids, toxic, n.o.s. methanol		
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120		
Packing group (DOT)	: II - Medium Danger		
Subsidiary risk (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132		
Hazard labels (DOT)	: 3 - Flammable liquid 6.1 - Poison		
	ramine Luger Poison		
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202		
DOT Packaging Bulk (49 CFR 173.xxx)	: 243		
DOT 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)			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)			
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"		
Emergency Response Guide (ERG) Number	: 131		
Other information	: No supplementary information available.		
Transportation of Dangerous Goods			
Not applicable			

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Transport by sea

Transport document description (IMDG) UN-No. (IMDG)	: UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (methanol), 3 (6.1), II : 1992
	. 1992
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Subsidiary risks (IMDG)	: 6.1 - Toxic substances
Air transport	

Air transport

Transport document description (IATA)	: UN 1992 Flammable liquid, toxic, n.o.s. (methanol), 3 (6.1), II
UN-No. (IATA)	: 1992
Proper Shipping Name (IATA)	: Flammable liquid, toxic, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger
Subsidiary hazards (IATA)	: 6.1 - Toxic substances

SECTION 15: Regulatory information

15.1. US Federal regulations

methanol (67-56-1)		
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)		
CERCLA RQ	5000 lb	

15.2. International regulations

CANADA

methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

methanol (67-56-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

15.3. US State regulations

methanol (67-56-1)					
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)
No	Yes	No	No		47000 µg/day (inhalation); 23,000 µg/day (oral)

SECTION 16: Other information	
Revision date	: 11/04/2019
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.

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Full text of H-phrases:

H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H370	Causes damage to organs

Phenova US SDS REV

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