

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/11/2019 Revision date: 10/11/2019 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Mixture		
Product name	: Custom VOAs Standard 5		
Product code	: AL0-130891		
1.2. Recommended use and restriction	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) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585		

2.1. Classification of the substance or mixture

GHS US classification		
Flammable liquids Category 2	H225	Highly flammable liquid and vapour
Acute toxicity (oral) Category 3	H301	Toxic if swallowed
Acute toxicity (dermal) Category 3	H311	Toxic in contact with skin
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Specific target organ toxicity (single exposure) Category 1	H370	Causes damage to organs

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)	: H225 - Highly flammable liquid and vapour H301+H311 - Toxic if swallowed or in contact with skin H318 - Causes serious eye damage H370 - Causes damage to organs
Precautionary statements (GHS US)	 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. P264 - Wash hands, forearms and face thoroughly after handling. 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 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor
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	P310 - Immediately call a poison center or doctor		
	P312 - Call a poison center or doctor if you feel unwell		
	P321 - Specific treatment (see supplemental first aid instruction on this label)		
	P322 - Specific treatment (see supplemental first aid instruction on this label)		
	P330 - Rinse mouth.		
	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		
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. Substance

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.
methanol (Component)	(CAS-No.) 67-56-1	90
1-butanol (Component)	(CAS-No.) 71-36-3	2.5
ethanol (Component)	(CAS-No.) 64-17-5	2.5
1-propanol (Component)	(CAS-No.) 71-23-8	2.5

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 you feel unwell, seek medical advice (show the label where possible).		
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 effect	ts (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			
SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguish	ing media		
	ing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.		
5.1. Suitable (and unsuitable) extinguish	5		
5.1. Suitable (and unsuitable) extinguish Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.Do not use a heavy water stream.		
5.1. Suitable (and unsuitable) extinguish Suitable extinguishing media Unsuitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.Do not use a heavy water stream.		
 5.1. Suitable (and unsuitable) extinguish Suitable extinguishing media Unsuitable extinguishing media 5.2. Specific hazards arising from the ch 	 Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream. emical 		
 5.1. Suitable (and unsuitable) extinguish Suitable extinguishing media Unsuitable extinguishing media 5.2. Specific hazards arising from the ch No additional information available 	 Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream. emical 		
 5.1. Suitable (and unsuitable) extinguish Suitable extinguishing media Unsuitable extinguishing media 5.2. Specific hazards arising from the ch No additional information available 5.3. Special protective equipment and p 	 Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream. emical ecautions for fire-fighters Use water spray or fog for cooling exposed containers. Exercise caution when fighting any 		

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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	nt and cleaning up		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. 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			
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.		
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.		
Incompatible products	: Strong bases. Strong acids.		
Incompatible materials	: Sources of ignition. Direct sunlight.		

SECTION 8: Exposure controls/personal protection

8.1. Control parameters		
Custom VOAs Standard 5		
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
1-butanol (71-36-3)		
ACGIH	Local name	n-Butanol
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	300 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
ethanol (64-17-5)		
ACGIH	Local name	Ethanol
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT irr

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ethanol (64-17-5)			
ACGIH	Regulatory reference	ACGIH 2018	
OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³	
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
OSHA	Regulatory reference (US-OSHA)	OSHA	
1-propanol (71-23-8)			
ACGIH	Local name	n-Propanol (n-Propyl alcohol)	
ACGIH	ACGIH TWA (ppm)	100 ppm	
ACGIH	Remark (ACGIH)	Eye & URT irr	
ACGIH	Regulatory reference	ACGIH 2018	
OSHA	OSHA PEL (TWA) (mg/m ³)	500 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)	
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

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

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	
рН	: No data available	
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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

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 temperatu	res.			
10.5. Incompatible materials				
Strong acids. Strong bases.				
10.6. Hazardous decomposition products				
fume. Carbon monoxide. Carbon dioxide.				
	lien			
SECTION 11: Toxicological informat				
11.1. Information on toxicological effects				
Acute toxicity	: Not classified			
Custom VOAs Standard 5				
ATE US (oral)	110.497 mg/kg body weight			
ATE US (dermal)	331.844 mg/kg body weight			
1-butanol (71-36-3)				
LD50 oral rat	2292 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)			
LD50 dermal rabbit	3430 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal)			
ATE US (oral)	500 mg/kg body weight			
ATE US (dermal)	3430 mg/kg body weight			
ethanol (64-17-5)				
LD50 oral rat	10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)			
LD50 dermal rabbit	> 16000 mg/kg (Rabbit, Literature study, Dermal)			

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ethanol (64-17-5)			
LC50 inhalation rat (mg/l)	117 - 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation)		
ATE US (oral)	10740 mg/kg body weight		
1-propanol (71-23-8)			
LD50 oral rat	> 2000 mg/kg (Rat, Oral)		
LD50 dermal rabbit	4049 mg/kg (Rabbit, Dermal)		
LC50 inhalation rat (mg/l)	9.8 mg/l (4 h, Rat, Inhalation)		
ATE US (dermal)	4049 mg/kg body weight		
ATE US (vapors)	9.8 mg/l/4h		
ATE US (dust, mist)	9.8 mg/l/4h		
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	15800 mg/kg (Rabbit; Literature study)		
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)		
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)		
ATE US (oral)	100 mg/kg body weight		
ATE US (dermal)	300 mg/kg body weight		
ATE US (gases)	700 ppmV/4h		
ATE US (vapors)	3 mg/l/4h		
ATE US (dust, mist)	0.5 mg/l/4h		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Causes serious eye damage.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Causes damage to organs.		
STOT-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

1-butanol (71-36-3)					
LC50 fish 1	1376 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Static syste Fresh water, Experimental value, GLP)				
EC50 Daphnia 1	1328 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)				
ethanol (64-17-5)					
LC50 fish 1	14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)				
1-propanol (71-23-8)					
LC50 fish 1	4480 mg/l (96 h, Pimephales promelas, Flow-through system)				
EC50 Daphnia 1	3644 mg/l (48 h, Daphnia magna)				
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)				

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 > 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) 10800 mg/l (LC50; 96 h; Salmo gairdneri) Not established. Readily biodegradable in water. 			
Not established.			
Readily biodegradable in water.			
Readily biodegradable in water.			
1.1 - 1.92 g O₂/g substance			
2.46 g O ₂ /g substance			
2.59 g O₂/g substance			
0.33 - 0.79			
Biodegradable in the soil. Readily biodegradable in water.			
0.8 - 0.967 g O₂/g substance			
1.7 g O₂/g substance			
2.1 g O ₂ /g substance			
0.43			
Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.			
0.47 - 1.63 g O ₂ /g substance			
2.23 g O₂/g substance			
2.4 g O₂/g substance			
0.20 - 0.44			
Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.			
0.6 - 1.12 g O ₂ /g substance			
1.42 g O₂/g substance			
1.5 g O₂/g substance			
0.8 (Literature study)			
Not established.			
3.16 (BCFWIN, Calculated value)			
1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)			
Low potential for bioaccumulation (Log Kow < 4).			
1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)			
-0.31 (Experimental value)			
Not bioaccumulative.			
0.25 (Experimental value) Low potential for bioaccumulation (Log Kow < 4).			

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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).
2.4. Mobility in soil	
1-butanol (71-36-3)	
Surface tension	0.07 N/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Log Koc	0.388 (log Koc, PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil. May be harmful to plant growth, blooming and fruit formation.
ethanol (64-17-5)	
Surface tension	0.022 N/m (20 °C)
Ecology - soil	Highly mobile in soil.
1-propanol (71-23-8)	
Surface tension	0.024 N/m (20 °C)
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

Custom VOAs Standard 5			
1-butanol (71-36-3)			
ethanol (64-17-5)			
1-propanol (71-23-8)			
methanol (67-56-1)			

Other information

: Avoid release to the environment.

SECTION 13: Disposal consideration	ns
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	: UN1230 Methanol (methanol ; 1-butanol ; 1-propanol), 3 (6.1), II
UN-No.(DOT)	: UN1230
Proper Shipping Name (DOT)	: Methanol
	methanol ; 1-butanol ; 1-propanol
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

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according to Federal Register / Vol. 77, No. 58 / Monday, Hazard labels (DOT)	: 3 - Flammable liquid				
	6.1 - Poison				
	POISON				
	POISON				
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202				
DOT Packaging Bulk (49 CFR 173.xxx)	: 242				
DOT Symbols	: + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group,I - Proper shipping name appropriate for international and domestic transportation				
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composit (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 1' 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				
	liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.				
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150				
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L				
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.				
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					
Transport by sea					
Transport document description (IMDG)	: UN 1230 METHANOL (methanol ; 1-butanol ; 1-propanol), 3 (6.1), II (12°C c.c.)				
UN-No. (IMDG)	: 1230				
Proper Shipping Name (IMDG)	: METHANOL				
Class (IMDG)	: 3 - Flammable liquids				
Packing group (IMDG)	: II - substances presenting medium danger				
Subsidiary risks (IMDG) Limited quantities (IMDG)	: 6.1 - Toxic substances				
	: 1L				
Air transport					
Transport document description (IATA)	: UN 1230 Methanol (methanol ; 1-butanol ; 1-propanol), 3 (6.1), II				
UN-No. (IATA)	: 1230				
Proper Shipping Name (IATA)	: Methanol				
Class (IATA) Packing group (IATA)	: 3 - Flammable Liquids				
Packing group (IATA) Subsidiary hazards (IATA)	: II - Medium Danger : 6.1 - Toxic substances				

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SECTION 15: Regulatory information

15.1. US Federal regulations

1-butanol (71-36-3)				
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			
ethanol (64-17-5)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
1-propanol (71-23-8)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
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

1-butanol (71-36-3)
Listed on the Canadian DSL (Domestic Substances List)
ethanol (64-17-5)
Listed on the Canadian DSL (Domestic Substances List)
1-propanol (71-23-8)
Listed on the Canadian DSL (Domestic Substances List)
methanol (67-56-1)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

ethanol (64-17-5)	
Listed on IARC (International Agency for Research on Cancer)	
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	: 10/11/2019
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	
H318	Causes serious eye damage	
H370	Causes damage to organs	

Phenova US SDS REV

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