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Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product form : Mixture : EPA 541 Standard Product name Product code : AL0-101629; AL0-130071 Product group : Trade product 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category : Laboratory Use Industrial/Professional use spec Industrial For professional use only 1.2.2. Uses advised against No additional information available Details of the supplier of the safety data sheet 1.3. Phenova 6390 Joyce Dr. Suite 100 80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com 1.4. Emergency telephone number ChemTel Assistance (US/Canada) 1-800-255-3924 Emergency number ChemTel Assistance (International) +1 813-248-0585 **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Flam. Lig. 2 H225 Acute Tox. 3 (Oral) H301 Acute Tox. 3 (Dermal) H311 STOT SE 1 H370 Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] F; R11 T; R23/24/25 T; R39/23/24/25 Full text of R-phrases: see section 16 Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS06 CHSUS Signal word (CLP) : Danger Hazardous ingredients : methanol Hazard statements (CLP) : H225 - Highly flammable liquid and vapor H301+H311 - Toxic if swallowed or in contact with skin H370 - Causes damage to organs

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Precautionary statements (CLP)	: 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 thoroughly after handling
	P270 - Do not eat, drink or smoke when using this product
	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
	P308+P313 - IF exposed or concerned: Get medical advice/attention
	P361+P364 - Take off immediately all contaminated clothing and wash it before reuse
	P403+P235 - Store in a well-ventilated place. Keep cool
No labeling applicable	

No labeling applicable

2.3. Other hazards No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methanol (Component)	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	99.7	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
allyl alcohol (Component)	(CAS No) 107-18-6 (EC no) 203-470-7 (EC index no) 603-015-00-6	0.1	Flam. Liq. 2, H225 Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Aquatic Acute 1, H400
2-methoxyethanol (Component) substance listed as REACH Candidate	(CAS No) 109-86-4 (EC no) 203-713-7 (EC index no) 603-011-00-4	0.1	Flam. Liq. 3, H226 Repr. 1B, H360FD Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302
Name	Product identifier	Specific	concentration limits
methanol (Component)	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X		0) STOT SE 2, H371 STOT SE 1, H370

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.
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.
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 persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call poison center or doctor/physician.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries after skin contact	 Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	2

: Use extinguishing media appropriate for surrounding fire.

5.1. Extinguishing media Suitable extinguishing media

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Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from th	e substance or mixture
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
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 n	neasures
6.1. Personal precautions, protectiv	re 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. 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.
6.3. Methods and material for conta	inment 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 pers	ional protection.
SECTION 7: Handling and storag	e
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. Use only non-sparking tools.
Hygiene measures	: Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and wate Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving 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.
Incompatible materials	: Direct sunlight. Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/p	ersonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Either local exhaust or general room ventilation is usually required.
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	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
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Other information

: Do not eat, drink or smoke during use

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		
	: Liquid	
	Colorless.	
	characteristic.	
H	No data available	
Melting point	No data available	
Freezing point	No data available	
Boiling point	No data available	
Flash point	No data available	
Auto-ignition temperature	No data available	
Decomposition temperature	No data available	
	Highly flammable liquid and vapor	
Relative density	No data available	
Solubility	No data available	
Explosive properties	No data available	
Oxidizing properties	No data available	
Explosion limits	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		
Highly flammable liquid and vapor. May form flamma	able/explosive vapor-air mixture.	
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid		
Direct sunlight. Extremely high or low temperatures.	Open flame.	
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
May release flammable gases.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects	Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.	
,		
EPA 541 Standard	400 204 mm/lum hash uminte	
ATE CLP (oral) ATE CLP (dermal)	100.301 mg/kg body weight 300.903 mg/kg body weight	
allyl alcohol (107-18-6) LD50 oral rat	64 mail/ra (Pot)	
LD50 oral rat	64 mg/kg (Rat) 45 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	0.40 mg/l/4h (Rat)	
LC50 inhalation rat (mg/)	165 ppm/4h (Rat)	
2-methoxyethanol (109-86-4)		
LD50 oral rat	2370 mg/kg (Rat)	
LD50 dermal rabbit	1280 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	> 6.2 mg/l/4h (Rat)	
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/4b (Rat: Literature study)	

LC50 inhalation rat (ppm)

64000 ppm/4h (Rat; Literature study)

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methanol (67-56-1)	
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (gases)	700.000 ppmV/4h
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	0.500 mg/l/4h
Skin corrosion/irritation	: Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
	Based on available data, the classification criteria are not met May cause cancer
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Causes damage to organs.
Specific target organ toxicity (repeated	: Not classified
exposure)	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

allyl alcohol (107-18-6)	
LC50 fish 2	0.32 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 2	0.25 mg/l (EC50; 96 h)
2-methoxyethanol (109-86-4)	
LC50 fish 1	14977 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	> 10000 mg/l (EC50; 24 h)
Threshold limit algae 2	> 10000 mg/l (EC0; 192 h)
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

EPA 541 Standard		
Persistence and degradability	Not established.	
allyl alcohol (107-18-6)		
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available.	
Biochemical oxygen demand (BOD)	1.66 g O□ /g substance	
Chemical oxygen demand (COD)	2.12 g O□ /g substance	
ThOD	2.2 g O□ /g substance	
BOD (% of ThOD)	0.75	
2-methoxyethanol (109-86-4)		
Persistence and degradability	Readily biodegradable in water. Photodegradation in the air.	
Chemical oxygen demand (COD)	1.62 g O□ /g substance	
ThOD	1.68 g O□ /g substance	
BOD (% of ThOD)	0.07	
methanol (67-56-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
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6afety Data Sheet methanol (67-56-1)	
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O□ /g substance
Chemical oxygen demand (COD)	1.42 g O /g substance
ThOD	1.5 g O□ /g substance
BOD (% of ThOD)	0.8 (Literature study)
12.3. Bioaccumulative potential	
EPA 541 Standard	
Bioaccumulative potential	Not established.
allyl alcohol (107-18-6)	
BCF fish 1	0.8 (BCF)
Log Pow	0.17 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2-methoxyethanol (109-86-4)	
Log Pow	-0.88
Bioaccumulative potential	Bioaccumulation: not applicable.
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	
allyl alcohol (107-18-6)	
Surface tension	0.026 N/m (20 °C)
Ecology - soil	Toxic to flora.
2-methoxyethanol (109-86-4)	
Surface tension	0.033 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. Results of PBT and vPvB assessme	
Component	
2-methoxyethanol (109-86-4)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
12.6. Other adverse effects	
Additional information	: Avoid release to the environment
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
	· · · · ·
Additional information	: Handle empty containers with care because residual vapors are flammable.
Additional information Ecology - waste materials	Handle empty containers with care because residual vapors are flammable.Avoid release to the environment. Hazardous waste due to toxicity.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.
Ecology - waste materials SECTION 14: Transport information	: Avoid release to the environment. Hazardous waste due to toxicity.
Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A	: Avoid release to the environment. Hazardous waste due to toxicity.
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Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No. (ADR)	: Avoid release to the environment. Hazardous waste due to toxicity.
Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number	: Avoid release to the environment. Hazardous waste due to toxicity. ADN : 1992
Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No. (ADR) UN-No.(IATA)	 Avoid release to the environment. Hazardous waste due to toxicity.
Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No. (ADR) UN-No. (IATA) UN-No. (IMDG) UN-No. (ADN)	 Avoid release to the environment. Hazardous waste due to toxicity.
Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No. (ADR) UN-No. (IATA) UN-No. (IMDG) UN-No. (ADN) 14.2. UN proper shipping name	 Avoid release to the environment. Hazardous waste due to toxicity.
Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No. (ADR) UN-No. (IATA) UN-No. (IMDG) UN-No. (IMDG) UN-No. (ADN) 14.2. UN proper shipping name Proper Shipping Name (ADR)	 Avoid release to the environment. Hazardous waste due to toxicity. ADN 1992 1992 1992 1992 1992 FLAMMABLE LIQUID, TOXIC, N.O.S.
Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No. (ADR) UN-No. (IATA) UN-No. (IMDG) UN-No. (IMDG) UN-No. (ADN) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IATA)	 Avoid release to the environment. Hazardous waste due to toxicity. ADN 1992 1992 1992 1992 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. Flammable liquid, toxic, n.o.s.
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Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1 UN number UN-No. (ADR) UN-No. (IATA) UN-No. (IMDG) UN-No. (IMDG) UN-No. (ADN) 14.2 UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (ADN) Transport document description (ADR)	 Avoid release to the environment. Hazardous waste due to toxicity. ADN 1992 1992 1992 1992 FLAMMABLE LIQUID, TOXIC, N.O.S.

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Classification code (ADR)	: FT1
Class (IATA)	: 3
Class (IMDG)	: 3
Class (ADN)	: 3
Classification code (ADN)	: FT1
Subsidiary risks (ADR)	: 6.1
Subsidiary risks (IMDG)	: 6.1
Hazard labels (ADR)	: 3, 6.1
Hazard labels (IATA)	: 3, 6.1
Hazard labels (IMDG)	: 3, 6.1
Hazard labels (ADN)	: 3, 6.1
14.4. Packing group	
Packing group (ADR)	: .
Packing group (IATA) Packing group (IMDG)	: II : II
Packing group (ADN)	: II
14.5. Environmental hazards	
14.5. Environmental hazards Other information	: No supplementary information available.
	: No supplementary information available.
Other information 14.6. Special precautions for user	: No supplementary information available.
Other information 14.6. Special precautions for user 14.6.1. Overland transport	
Other information 14.6. Special precautions for user 14.6.1. Overland transport Hazard identification number (Kemler No.)	: No supplementary information available. : 336 : FT1
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14.6.3. Air transport	
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
PCA packing instructions (IATA)	: 352
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA max net quantity (IATA)	: 1L
PCA Excepted quantities (IATA)	: E2
Special provision (IATA)	: A3
ERG code (IATA)	: 3HP
14.6.4. Inland waterway transport	
Special provision (ADN)	: 274, 802
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, TOX, A
Ventilation (ADN)	: VE01, VE02
Number of blue cones/lights (ADN)	: 2
Carriage prohibited (ADN)	: No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Contains substance on the candidate list in concentration $\ge 0.1\%$ or with a lower specific limit: 2-Methoxyethanol (EC 203-713-7, CAS 109-86-4) Contains no REACH Annex XIV substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information	
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.

PHV SDS EU

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