

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 22/08/2017 Revision date: Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

: Custom SVOA Spike Mix Product name

Product code : AL0-130155 Product group : Trade product

#### 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

#### Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

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]

H225 Flam. Liq. 2 Acute Tox. 3 (Oral) H301 Acute Tox. 3 (Dermal) H311 STOT SE 1 H370 Aquatic Chronic 3 H412

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F· R11

T; R23/24/25

T; R39/23/24/25

R19

R52/53

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### Label elements

Signal word (CLP)

#### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







GHS06

GHS02 : Danger

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Hazard statements (CLP) : H225 - Highly flammable liquid and vapor

H301+H311 - Toxic if swallowed or in contact with skin

H370 - Causes damage to organs

H412 - Harmful to aquatic life with long lasting effects

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 P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water

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

EUH phrases : EUH019 - May form explosive peroxides

No labeling applicable

#### 2.3. Other hazards

No additional information available

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

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	99.96	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370	
caprolactam (Component) substance with a Community workplace exposure limit	(CAS No) 105-60-2 (EC-No.) 203-313-2 (EC index no) 613-069-00-2	0.004	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	
parathion (Component)	(CAS No) 56-38-2 (EC-No.) 200-271-7 (EC index no) 015-034-00-1	0.004	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410	
1,4-dioxane (Component) substance with a Community workplace exposure limit	(CAS No) 123-91-1 (EC-No.) 204-661-8 (EC index no) 603-024-00-5	0.004	Flam. Liq. 2, H225 Carc. 2, H351 Eye Irrit. 2, H319 STOT SE 3, H335	
Name	Product identifier	Specific o	Specific concentration limits	
methanol (Component)	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X		(3 = <c 10)="" 2,="" <="" h371<br="" se="" stot="">(C &gt;= 10) STOT SE 1, H370</c>	

## **SECTION 4: First aid measures**

First-aid measures after eye contact

## 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 cloth

: 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.

: 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.

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#### Most important symptoms and effects, both acute and delayed

Repeated exposure to this material can result in absorption through skin causing significant Symptoms/effects after skin contact

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

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### Special hazards arising from the substance or mixture

: Highly flammable liquid and vapor. Fire hazard

Explosion hazard : May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed

containers, spreading fire and increasing risk of burns and injuries. May form explosive

peroxides.

#### 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. DO NOT fight fire when fire

reaches explosives. Evacuate area.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

#### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency proce

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

#### For emergency responders

: Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Protective equipment

**Emergency procedures** : Ventilate area.

#### Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### Methods and material for containment and cleaning up

Methods for cleaning up : Take up in absorbent material. Collect spillage.

#### Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

: Handle empty containers with care because residual vapors are flammable. Hazardous waste Additional hazards when processed

due to potential risk of explosion.

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. Keep away from sources

of ignition - No smoking.

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

#### 7.2. Conditions for safe storage, including 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 products Oxidizing agent.

Incompatible materials Direct sunlight. Heat sources.

#### Specific end use(s)

No additional information available

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#### SECTION 8: Exposure controls/personal 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.

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. Color Odor : characteristic. рΗ : 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

Flammability (solid, gas) : Highly flammable liquid and vapor

Relative density : No data available Solubility : No data available

Explosive properties : May form explosive peroxides.

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 flammable/explosive vapor-air mixture.

## 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating.

## 10.5. Incompatible materials

Oxidizing agent.

#### 10.6. Hazardous decomposition products

May release flammable gases. May form explosive peroxides.

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1. Information on toxicological effects	
cute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.
Custom SVOA Spike Mix	
ATE CLP (oral)	100.0400160064 mg/kg body weight
ATE CLP (dermal)	300.1200480192 mg/kg body weight
caprolactam (105-60-2)	
LD50 oral rat	1210 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 1475 mg/kg
	bodyweight; Rat; Equivalent or similar to OECD 401; Experimental value; 1876 mg/kg bodyweight; Rat)
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; Other)
LD50 dermal rabbit	1438 mg/kg (Rabbit)
ATE CLP (oral)	1210 mg/kg body weight
ATE CLP (dermal)	1438 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h
parathion (56-38-2)	
LD50 oral rat	2 mg/kg (Rat)
LD50 dermal rat	73 mg/kg (Rat)
LD50 dermal rabbit	40 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.03 mg/l/4h (Rat)
ATE CLP (oral)	2 mg/kg body weight
ATE CLP (dermal)	40 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.03 mg/l/4h
ATE CLP (dust, mist)	0.03 mg/l/4h
1,4-dioxane (123-91-1)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	7600 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	51 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	14250 ppm/4h (Rat)
methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight 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 CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
kin corrosion/irritation	: Not classified
	Based on available data, the classification criteria are not met
erious eye damage/irritation	: Not classified
, 0	Based on available data, the classification criteria are not met
despiratory or skin sensitization	: Not classified
,	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
on our managementy	Based on available data, the classification criteria are not met
• •	•
arcinogenicity	· Not classified
Carcinogenicity	<ul> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> <li>May cause cancer</li> </ul>
	Based on available data, the classification criteria are not met May cause cancer
Carcinogenicity teproductive toxicity	Based on available data, the classification criteria are not met

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Specific target organ toxicity - repeated

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

Ecology - water : Harmful to aquatic life with long lasting effects.

: Not classified

caprolactam (105-60-2)	
EC50 Daphnia 1	> 1000 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 2	> 1000 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
parathion (56-38-2)	
EC50 Daphnia 1	0.0025 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
LC50 fish 2	0.75 mg/l (LC50; 96 h)
1,4-dioxane (123-91-1)	
EC50 Daphnia 1	8450 mg/l (EC50; 24 h)
LC50 fish 2	13000 mg/l (LC50; 96 h)
Threshold limit algae 2	5600 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

Custom SVOA Spike Mix		
Persistence and degradability	May cause long-term adverse effects in the environment.	
caprolactam (105-60-2)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	0.6 g O /g substance (20 D)	
Chemical oxygen demand (COD)	0.03 g O /g substance (KMnO4)	
parathion (56-38-2)		
Persistence and degradability	Biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil.	
1,4-dioxane (123-91-1)		
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photooxidation in the air.	
Biochemical oxygen demand (BOD)	0 g O /g substance	
ThOD	1.8 g O /g substance	
BOD (% of ThOD)	0	
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 /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

Custom SVOA Spike Mix		
Bioaccumulative potential	Not established.	
caprolactam (105-60-2)		
BCF other aquatic organisms 1	<1 (BCF; Other)	
Log Pow	0.12 (Experimental value; Equivalent or similar to OECD 107; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

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parathion (56-38-2)			
BCF fish 1	335 (BCF; 912 h)		
BCF fish 2	462 (BCF; 72 h)		
BCF other aquatic organisms 1	240 (BCF; 999 h)		
BCF other aquatic organisms 2	97 (BCF; 792 h)		
Log Pow	3.8		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
1,4-dioxane (123-91-1)			
BCF fish 1	0.2 - 0.7 (BCF)		
Log Pow	-0.27 (Experimental value)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
methanol (67-56-1)	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			

caprolactam (105-60-2)	
Log Koc	log Koc,Other; 1.76; Calculated value
parathion (56-38-2)	
Surface tension	0.039 N/m (25 °C)
Ecology - soil	Toxic to bees.
1,4-dioxane (123-91-1)	
Surface tension	0.037 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 assessment

No additional information available

#### 12.6. Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: Disposal considerations

13.1.	Waste treatment methods	s

Product/Packaging 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. Hazardous waste

due to potential risk of explosion.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1.	UN number		
UN-No	. (ADR)	:	1992
UN-No	. (IATA)	:	1992
UN-No	. (IMDG)	:	1992
UN-No	. (ADN)	:	1992

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, TOXIC, N.O.S. Proper Shipping Name (IATA) : Flammable liquid, toxic, n.o.s.

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, TOXIC, N.O.S. Proper Shipping Name (ADN) : FLAMMABLE LIQUID, TOXIC, N.O.S.

Transport document description (ADR) : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), II, (D/E)

#### 14.3. Packing group

Class (ADR)	:	3
Classification code (ADR)	:	FT1
Class (IATA)	:	3
Class (IMDG)	:	3

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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)
 : II

 Packing group (IATA)
 : II

 Packing group (IMDG)
 : II

 Packing group (ADN)
 : II

14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 336
Classification code (ADR) : FT1

Orange plates

336 1992

Special provision (ADR) : 274

Transport category (ADR) : 2

Tunnel restriction code (ADR) : D/E

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E2

14.6.2. Transport by sea

Special provision (IMDG) : 274 Limited quantities (IMDG) : 1L Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP2, TP13 EmS-No. (Fire) : F-E

 EmS-No. (Fire)
 : F-E

 EmS-No. (Spillage)
 : S-D

 Stowage category (IMDG)
 : B

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Properties and observations (IMDG) : Flammable toxic liquid which is not specified by name in this class or, on account of its

characteristics, in some other class. Toxic if swallowed, by skin contact or by inhalation.

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) : 1 L
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 REACH substances with Annex XVII restrictions

Contains no REACH candidate substance

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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