

## Safety Data Sheet

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

Date of issue: 18/07/2017 Revision date: : Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name : Custom Pesticide Standard

Product code : AL0-130125
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

Use of the substance/mixture : Certified reference material for laboratory use only

#### 1.2.2. 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

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924

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. Liq. 2
 H225

 Acute Tox. 3 (Oral)
 H301

 Acute Tox. 3 (Dermal)
 H311

 STOT SE 1
 H370

 Aquatic Chronic 2
 H411

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

F; R11

T; R23/24/25

T; R39/23/24/25

N; R51/53

Full text of R-phrases: see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02



GHS06





GHS09

Signal word (CLP) : Danger

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Hazardous ingredients : methanol

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

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

H370 - Causes damage to organs

H411 - Toxic 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

smokina

P233 - Keep container tightly closed

P260 - Do not breathe dust/fume/gas/mist/vapours/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

P312 - Call a POISON CENTRE or doctor if you feel unwell

P361+P364 - Take off immediately all contaminated clothing and wash it before reuse

P391 - Collect spillage

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

No labelling 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	99.95	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
malathion (Component)	(CAS-No.) 121-75-5 (EC-No.) 204-497-7 (EC Index-No.) 015-041-00-X	0.01	Acute Tox. 3 (Oral), H301 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
carbaryl (Component)	(CAS-No.) 63-25-2 (EC-No.) 200-555-0 (EC Index-No.) 006-011-00-7	0.01	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Carc. 2, H351 Aquatic Acute 1, H400 (M=100)
Name	Product identifier	Specific o	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 TOT SE 1, H370

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

#### 4.1. Description of first aid measure

First-aid measures general : Never give anything by mouth to an unconscious person. 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. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

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 effects, both acute and delayed

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

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

No additional information available

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## **SECTION 5: Firefighting measures**

5.1. 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

Fire hazard : Highly flammable liquid and vapour.

**Explosion hazard** : May form flammable/explosive vapour-air mixture.

Advice for firefighter

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

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 procedures

#### For non-emergency personnel

: Evacuate unnecessary personnel. **Emergency procedures** 

#### 6.1.2. For emergency responders

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

**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.

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

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect Methods for cleaning up

spillage. Store away from other materials.

#### Reference to other sections

See Heading 8. Exposure controls and personal protection.

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

### Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Precautions for safe handling smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapour. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area.

Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated Hygiene measures

clothing. Wash contaminated clothing before reuse.

### 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.

: Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a Storage conditions

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/personal protection

#### Control parameters

No additional information available

#### 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 alasses







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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 Colour : Colourless Odour : characteristic. : No data available рΗ Melting point : No data available Freezing point : No data available Boiling point : No data available : No data available Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available

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

Relative density : No data available
Solubility : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive 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 vapour. May form flammable/explosive vapour-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

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.

Custom Pesticide Standard	
ATE CLP (oral)	100.0500250125 mg/kg bodyweight
ATE CLP (dermal)	300.1500750375 mg/kg bodyweight
carbaryl (63-25-2)	
LD50 oral rat	230 mg/kg (Rat; Literature study)
LD50 dermal rat	4000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)
ATE CLP (oral)	230 mg/kg bodyweight
ATE CLP (dermal)	4000 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h

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carbaryl (63-25-2)		
ATE CLP (dust,mist)	1.5 mg/l/4h	
malathion (121-75-5)		
LD50 oral rat	290 mg/kg (Rat)	
LD50 dermal rat	4444 mg/kg (Rat)	
LD50 dermal rabbit	4100 mg/kg (Rabbit)	
ATE CLP (oral)	290 mg/kg bodyweight	
ATE CLP (dermal)	4100 mg/kg bodyweight	
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 CLP (oral)	100 mg/kg bodyweight	
ATE CLP (dermal)	300 mg/kg bodyweight	
ATE CLP (gases)	700 ppmv/4h	
ATE CLP (vapours)	3 mg/l/4h	
ATE CLP (dust,mist)	0.5 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 sensitisation	: 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	
STOT-single exposure	: Causes damage to organs.	
STOT-repeated exposure	: Not classified	
	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	: Based on available data, the classification criteria are not met.	

## SECTION 12: Ecological information

12.1. Toxicity	
Ecology - water	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
carbaryl (63-25-2)	
EC50 Daphnia 1	0.0064 mg/l (EC50; 48 h)
LC50 fish 2	0.86 - 4.3 mg/l (LC50; 96 h)
malathion (121-75-5)	
EC50 Daphnia 1	0.0008 mg/l (EC50; 48 h)
LC50 fish 2	0.17 mg/l (LC50; 96 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)

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12.2. Persistence and degradability	
Custom Pesticide Standard	
Persistence and degradability	May cause long-term adverse effects in the environment.
carbaryl (63-25-2)	
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	0 g O /g substance
malathion (121-75-5)	
Persistence and degradability	Biodegradable in the soil.
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 Pesticide Standard	
Bioaccumulative potential	Not established.
carbaryl (63-25-2)	
BCF fish 1	140 (BCF)
BCF other aquatic organisms 1	4000 (BCF)
BCF other aquatic organisms 2	260 (BCF)
Log Pow	2.32 - 2.36
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
malathion (121-75-5)	
Log Pow	2.36 - 2.89
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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	
carbaryl (63-25-2)	
Ecology - soil	Not toxic to plants. Toxic to bees.
malathion (121-75-5)	
Surface tension	0.037 N/m (24 °C)
Ecology - soil	Toxic to bees. Not toxic to plants.
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 advance effects	
12.6. Other adverse effects  Additional information :	Avoid release to the environment
Additional information .	Avoid release to the environment
<b>SECTION 13: Disposal considerations</b>	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations :	Dispose in a safe manner in accordance with local/national regulations.
Additional information :	Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials :	Avoid release to the environment.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	1002
,	1992
UN-No. (IATA) :	1992 1992
UN-No. (IMDG)	1002
40/07/0047	FN (Facility)

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UN-No. (ADN)	: 1992
OIN-INO. (ADIN)	. 1002

#### 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), ENVIRONMENTALLY

**HAZARDOUS** 

## 14.3. Packing group

Class (ADR) : 3 Classification code (ADR) : FT1 Class (IATA) : 3 Class (IMDG) : 3 Class (ADN) : 3 Classification code (ADN) : FT1 : 6.1 Subsidiary risk (ADR) Subsidiary risk (IMDG) : 6.1 Danger labels (ADR) : 3, 6.1



Hazard labels (IATA) : 3, 6.1



Danger labels (IMDG) : 3, 6.1



Danger 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

Dangerous for the environment



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

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Orange plates 336 1992

: 274 Special provisions (ADR) 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 provisions (IMDG) : 274 Limited quantities (IMDG) : 1L : E2 Excepted quantities (IMDG) : P001 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP2, TP13 EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-D Stowage category (IMDG) : B

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 : 60L CAO max net quantity (IATA) PCA packing instructions (IATA) : 352 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA max net quantity (IATA) : 1L : E2 PCA Excepted quantities (IATA) Special provisions (IATA) : A3 ERG code (IATA) : 3HP

#### 14.6.4. Inland waterway transport

Special provisions (ADN) : 274, 802 Limited quantities (ADN) : 1 L Excepted quantities (ADN) : E2 Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, EX, TOX, A : VE01, VE02 Ventilation (ADN)

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Custom Pesticide Standard
3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Custom Pesticide Standard

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3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Custom Pesticide Standard
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Custom Pesticide Standard
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Custom Pesticide Standard

Contains no substance on the REACH candidate list

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, labelling 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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