

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Date of issue: 29/10/2015 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 : Acid Matrix Spike Mix
Product code : AL0-101494;AL0-101495

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

# 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 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317 Muta. 2 H341 Carc. 2 H351 STOT SE 1 H370 STOT RE 2 H373 Aquatic Chronic 2 H411

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

Carc.Cat.3; R40

Muta.Cat.3; R68

F; R11

T; R23/24/25

T; R39/23/24/25

Xi; R36/38 R43

N; R51/53

R33

Full text of R-phrases: see section 16

# Adverse physicochemical, human health and environmental effects

No additional information available

29/10/2015 EN (English US) 1/9

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

#### 2.2. Label elements

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

Hazard pictograms (CLP)









GHS02

GHS06

GHS(

GHS09

Signal word (CLP) : Danger

Hazardous ingredients : methanol, 2,3,4,5,6-pentachlorophenol, 4-nitrophenol, phenol, 2-chlorophenol, 4-chloro-3-

methylphenol

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

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

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H341 - Suspected of causing genetic defects H351 - Suspected of causing cancer

H370 - Causes damage to organs

H373 - May cause damage to organs through prolonged or repeated exposure

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

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

P308+P313 - IF exposed or concerned: Get medical advice/attention

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

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	95	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
2,3,4,5,6-pentachlorophenol (Component)	(CAS No) 87-86-5 (EC no) 201-778-6 (EC index no) 604-002-00-8	1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
4-nitrophenol (Component)	(CAS No) 100-02-7 (EC no) 202-811-7 (EC index no) 609-015-00-2	1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373
phenol (Component)	(CAS No) 108-95-2 (EC no) 203-632-7 (EC index no) 604-001-00-2	1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373
2-chlorophenol (Component)	(CAS No) 95-57-8 (EC no) 202-433-2 (EC index no) 604-008-00-0	1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411

29/10/2015 EN (English US) 2/9

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4-chloro-3-methylphenol (Component)	(CAS No) 59-50-7 (EC no) 200-431-6 (EC index no) 604-014-00-3	1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
Name	Product identifier	Specific c	oncentration 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
phenol (Component)	(CAS No) 108-95-2 (EC no) 203-632-7 (EC index no) 604-001-00-2	(1 =< C < 3)	Eye Irrit. 2, H319 Skin Irrit. 2, H315 n Corr. 1B, H314

# 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.

Immediately call a polson center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs:

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 a

poison center or doctor/physician.

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

Symptoms/injuries : There are potential chronic health effects to consider.

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

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. Causes skin irritation.

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 medical attention and special treatment needed

No additional information available

# 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.

# 5.2. Special hazards arising from the 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 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. 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 containment and cleaning up

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

29/10/2015 EN (English US) 3/9

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

#### 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. Use only non-sparking tools. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety

precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be

allowed out of the workplace. Wash contaminated clothing before reuse. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

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 materials : Direct sunlight. Heat sources.

# 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

# 8.2. Exposure controls

Personal protective equipment

Appropriate engineering controls

: Either local exhaust or general room ventilation is usually required.

: 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 suitable protective clothing. 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 Color Colorless Odor characteristic рΗ : No data available : No data available Melting point 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 : No data available

29/10/2015 EN (English US) 4/9

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

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

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.

ATE CLP (vapors)

ATE CLP (dust, mist)

# SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

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

11.000 mg/l/4h

1.500 mg/l/4h

Acid Matrix Spike Mix	
ATE CLP (oral)	102.660 mg/kg body weight
ATE CLP (dermal)	308.347 mg/kg body weight
4-chloro-3-methylphenol (59-50-7)	
LD50 oral rat	1194 mg/kg (Rat)
LC50 inhalation rat (mg/l)	> 0.7 mg/l/4h (Rat)
ATE CLP (oral)	1194.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
2-chlorophenol (95-57-8)	
LD50 oral rat	670 mg/kg body weight (Rat; Literature study)
ATE CLP (oral)	670.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h

ATE CLP (dust, mist)	1.500 mg/l/4h
4-nitrophenol (100-02-7)	
LD50 oral rat	569 mg/kg (Rat)
LD50 dermal rat	1024 mg/kg (Rat)
ATE CLP (oral)	569.000 mg/kg body weight
ATE CLP (dermal)	1024.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h

2,3,4,5,6-pentachlorophenol (87-86-5)	
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (gases)	100.000 ppmV/4h
ATE CLP (vapors)	0.500 mg/l/4h
ATE CLP (dust, mist)	0.050 mg/l/4h

phenol (108-95-2)	
LD50 oral rat	650 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rat	660 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402)
LD50 dermal rabbit	850 - 1400 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.32 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	100.000 mg/kg body weight

29/10/2015 EN (English US) 5/9

# Acid Matrix Spike Mix Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010		
phenol (108-95-2)		
ATE CLP (dermal)	660.000 mg/kg body weight	
ATE CLP (gases)	700.000 ppmV/4h	
ATE CLP (vapors)	0.320 mg/l/4h	
ATE CLP (dust, mist)	0.320 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 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	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
	Based on available data, the classification criteria are not met	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Suspected of causing genetic defects.	
Carcinogenicity	: Suspected of causing cancer.	
	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 exposure)	: May cause damage to organs through prolonged or repeated exposure.  There are potential chronic health effects to consider	
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

SECTION 12: Ecological information	ation
12.1. Toxicity	
Ecology - water	: Toxic to aquatic life with long lasting effects.
4-chloro-3-methylphenol (59-50-7)	
LC50 fish 2	0.917 mg/l (LC50; 96 h)
EC50 Daphnia 2	2 mg/l (EC50; 48 h)
Threshold limit algae 1	4.2 mg/l (EC50; 72 h)
2-chlorophenol (95-57-8)	
LC50 fish 1	2.6 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	7.4 mg/l (EC50; 48 h; Daphnia magna)
Threshold limit algae 2	70 mg/l (EC50; 72 h; Algae)
4-nitrophenol (100-02-7)	
LC50 fish 1	7.9 mg/l (LC50; 96 h)
EC50 Daphnia 1	4.7 mg/l (EC50; 48 h)
2,3,4,5,6-pentachlorophenol (87-86-5)	
LC50 fish 1	0.052 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.01 - 0.36 mg/l (EC50; 48 h)
phenol (108-95-2)	
LC50 other aquatic organisms 1	0.04 mg/l (4 days; Rana sp.; LC50)
EC50 Daphnia 2	6.6 mg/l (EC50; 48 h; Daphnia magna; Static system)
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)
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29/10/2015 EN (English US) 6/9

# Acid Matrix Spike Mix Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

mathanal (67 EG 4)	
methanol (67-56-1)	10000 mg/l//LCF0, 06 h, Colma gairdhari\
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)
12.2. Persistence and degradability	
Acid Matrix Spike Mix	May according to the second of
Persistence and degradability	May cause long-term adverse effects in the environment.
4-chloro-3-methylphenol (59-50-7)	
Persistence and degradability	Biodegradable in water.
Chemical oxygen demand (COD)	1.5 - 1.8 g O /g substance
2-chlorophenol (95-57-8)	
Persistence and degradability	Not readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil.
4-nitrophenol (100-02-7)	
Persistence and degradability	Readily biodegradable in water.
	, was any according to the control of the control o
2,3,4,5,6-pentachlorophenol (87-86-5)	Not readily biodogradable in yeter Non degradable in the sail
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
phenol (108-95-2)	
Persistence and degradability	Readily biodegradable in water. Photolysis in water. Readily biodegradable in the soil. Inhibits biodegradation processes in the soil. Low potential for adsorption in soil. Photooxidation in the air.
Biochemical oxygen demand (BOD)	1.68 g O /g substance
Chemical oxygen demand (COD)	2.28 g O /g substance
ThOD	2.38 g O /g substance
BOD (% of ThOD)	0.71
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	
12.0. Bioaccamalative potential	
Acid Matrix Chika Mix	
Acid Matrix Spike Mix	Net established
Bioaccumulative potential	Not established.
Bioaccumulative potential 4-chloro-3-methylphenol (59-50-7)	
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7) BCF fish 1	5.5 - 13 (BCF)
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7) BCF fish 1 Log Pow	5.5 - 13 (BCF) 2.78 - 3.10
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7) BCF fish 1	5.5 - 13 (BCF)
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7) BCF fish 1 Log Pow	5.5 - 13 (BCF) 2.78 - 3.10
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential	5.5 - 13 (BCF) 2.78 - 3.10
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)	5.5 - 13 (BCF) 2.78 - 3.10 Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio) 2.15 (Literature)
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)  BCF fish 2	5.5 - 13 (BCF) 2.78 - 3.10 Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio)
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)  BCF fish 2  Log Pow	5.5 - 13 (BCF) 2.78 - 3.10 Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio) 2.15 (Literature)
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)  BCF fish 2  Log Pow  Bioaccumulative potential	5.5 - 13 (BCF) 2.78 - 3.10 Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio) 2.15 (Literature)
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)  BCF fish 2  Log Pow  Bioaccumulative potential  4-nitrophenol (100-02-7)	5.5 - 13 (BCF) 2.78 - 3.10 Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio) 2.15 (Literature) Low potential for bioaccumulation (BCF < 500).
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)  BCF fish 2  Log Pow  Bioaccumulative potential  4-nitrophenol (100-02-7)  BCF fish 1	5.5 - 13 (BCF) 2.78 - 3.10 Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio) 2.15 (Literature) Low potential for bioaccumulation (BCF < 500).
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)  BCF fish 2  Log Pow  Bioaccumulative potential  4-nitrophenol (100-02-7)  BCF fish 1  BCF fish 2	5.5 - 13 (BCF) 2.78 - 3.10 Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio) 2.15 (Literature) Low potential for bioaccumulation (BCF < 500).  2.5 - 7.8 (BCF) 316 (BCF)
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)  BCF fish 2  Log Pow  Bioaccumulative potential  4-nitrophenol (100-02-7)  BCF fish 1  BCF fish 2  BCF other aquatic organisms 1	5.5 - 13 (BCF) 2.78 - 3.10 Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio) 2.15 (Literature) Low potential for bioaccumulation (BCF < 500).  2.5 - 7.8 (BCF) 316 (BCF) 30 (BCF; 24 h; Chlorella sp.)
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)  BCF fish 2  Log Pow  Bioaccumulative potential  4-nitrophenol (100-02-7)  BCF fish 1  BCF fish 2  BCF other aquatic organisms 1  Log Pow	5.5 - 13 (BCF) 2.78 - 3.10 Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio) 2.15 (Literature) Low potential for bioaccumulation (BCF < 500).  2.5 - 7.8 (BCF) 316 (BCF) 30 (BCF; 24 h; Chlorella sp.) 1.9
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)  BCF fish 2  Log Pow  Bioaccumulative potential  4-nitrophenol (100-02-7)  BCF fish 1  BCF fish 2  BCF other aquatic organisms 1  Log Pow  Bioaccumulative potential	5.5 - 13 (BCF) 2.78 - 3.10 Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio) 2.15 (Literature) Low potential for bioaccumulation (BCF < 500).  2.5 - 7.8 (BCF) 316 (BCF) 30 (BCF; 24 h; Chlorella sp.) 1.9
Bioaccumulative potential  4-chloro-3-methylphenol (59-50-7)  BCF fish 1  Log Pow  Bioaccumulative potential  2-chlorophenol (95-57-8)  BCF fish 2  Log Pow  Bioaccumulative potential  4-nitrophenol (100-02-7)  BCF fish 1  BCF fish 2  BCF other aquatic organisms 1  Log Pow  Bioaccumulative potential  2,3,4,5,6-pentachlorophenol (87-86-5)	5.5 - 13 (BCF)  2.78 - 3.10  Low potential for bioaccumulation (BCF < 500).  14 - 29 (BCF; 6 weeks; Cyprinus carpio)  2.15 (Literature)  Low potential for bioaccumulation (BCF < 500).  2.5 - 7.8 (BCF)  316 (BCF)  30 (BCF; 24 h; Chlorella sp.)  1.9  Low potential for bioaccumulation (BCF < 500).
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EN (English US) 29/10/2015 7/9

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

methanol (67-56-1)	
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

#### |12.4. | Mobility in soi

in the state of th		
2-chlorophenol (95-57-8)		
Surface tension	0.042 N/m (13 °C)	
phenol (108-95-2)		
Surface tension	0.0713 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

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.

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

# 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.

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

 Subsidiary risks (ADR)
 : 6.1

 Hazard labels (ADR)
 : 3, 6.1



Hazard labels (IATA) : 3, 6.1



# 14.4. Packing group

Packing group (ADR) : II Packing group (IATA) : II

# 14.5. Environmental hazards

Dangerous for the environment



29/10/2015 EN (English US) 8/9

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

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): 274Transport category (ADR): 2Tunnel restriction code (ADR): D/ELimited quantities (ADR): 11Excepted quantities (ADR): E2

# 14.6.2. Transport by sea

No additional information available

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 ERG code (IATA) : 3HP

14.6.4. Inland waterway transport

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 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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29/10/2015 EN (English US) 9/9