

# Safety Data Sheet

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

Date of issue: 24/08/2018 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 : Revised BNA Surrogate Spike Mix

Product code : AL0-130371
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

 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

R19

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) :







GHS06

GHS08

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

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H370 - Causes damage to organs

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

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	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X	99.87	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
Phenol (Component) substance with a Community workplace exposure limit	(CAS No) 4165-62-2 (EC-No.) 203-632-7 (EC index no) 604-001-00-2	0.01	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
nitrobenzene-D5 (Component) substance listed as REACH Candidate (Nitrobenzene) substance with a Community workplace exposure limit	(CAS No) 4165-60-0 (EC-No.) 224-014-3 (EC index no) 609-003-00-7	0.01	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 1B, H360F STOT RE 1, H372 Aquatic Chronic 3, H412
Name	Product identifier	Specific c	oncentration limits
methanol	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X		0) STOT SE 2, H371 FOT SE 1, H370
Phenol (Component)	(CAS No) 4165-62-2 (EC-No.) 203-632-7 (EC index no) 604-001-00-2	(1 = <c 3)<="" <="" td=""><td>Eye Irrit. 2, H319 Skin Irrit. 2, H315 n Corr. 1B, H314</td></c>	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. IF exposed or concerned: Get

medical advice/attention.

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

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

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

No additional information available

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

No additional information available

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## 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

Fire hazard : 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.

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

# **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

**Emergency procedures** : Ventilate area.

## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment 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 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. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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

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.

Storage conditions

: 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

#### Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

# Control parameters

Phenol (4165-62-2)		
EU	IOELV TWA (mg/m³)	8 mg/m³ (Phenol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	2 ppm (Phenol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m³)	16 mg/m³ (Phenol; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	4 ppm (Phenol; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m³)	8 mg/m³ (Phénol; Belgium; Time-weighted average exposure limit 8 h)

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Phenol (4165-62-2)		
Belgium	Limit value (ppm)	2 ppm (Phénol; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m³)	16 mg/m³ (Phénol; Belgium; Short time value)
Belgium	Short time value (ppm)	4 ppm (Phénol; Belgium; Short time value)
France	VLE (mg/m³)	15.6 mg/m³ (Phénol; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	4 ppm (Phénol; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m³)	7.8 mg/m³ (Phénol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	2 ppm (Phénol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5 ppm (Phenol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m³)	8 mg/m³ (Fenol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	2 ppm (Fenol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m³)	7.8 mg/m³ Phenol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	2 ppm Phenol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m³)	16 mg/m³ Phenol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	4 ppm Phenol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
nitrobenzene-D5 (4165-60-0)		
EU	IOELV TWA (mg/m³)	1 mg/m³ (Nitrobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	0.2 ppm (Nitrobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m³)	1 mg/m³ (Nitrobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.2 ppm (Nitrobenzène; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m³)	1 mg/m³ (Nitrobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
France	VME (ppm)	0.2 ppm (Nitrobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Nitrobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m³)	1 mg/m³ (Nitrobenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	0.2 ppm (Nitrobenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m³)	1 mg/m³ Nitrobenzene; United Kingdom; Time- weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	0.2 ppm Nitrobenzene; United Kingdom; Time- weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
methanol (67-56-1)		
EU	IOELV TWA (mg/m³)	260 mg/m³ (Methanol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)

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methanol (67-56-1)		
EU	IOELV TWA (ppm)	200 ppm (Methanol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m³)	266 mg/m³ (Alcool méthylique; Belgium; Time- weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	200 ppm (Alcool méthylique; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m³)	333 mg/m³ (Alcool méthylique; Belgium; Short time value)
Belgium	Short time value (ppm)	250 ppm (Alcool méthylique; Belgium; Short time value)
France	VLE (mg/m³)	1300 mg/m³ (Methanol; France; Short time value; VL: Valeur non réglementaire indicative)
France	VLE (ppm)	1000 ppm (Methanol; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (mg/m³)	260 mg/m³ (Methanol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	200 ppm (Methanol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m³)	133 mg/m³ (Methanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	100 ppm (Methanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m³)	266 mg/m³ Methanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	200 ppm Methanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m³)	333 mg/m³ Methanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	250 ppm Methanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

# 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.

: Chemical goggles or safety glasses. Safety glasses.

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 : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Color	: Colorless.	
Odor	: characteristic.	
рН	: No data available	

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Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available

Flammability (solid, gas) : 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

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. Overheating. Heat. Sparks.

#### 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

**Revised BNA Surrogate Spike Mix** 

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

ATE CLP (oral)	100.13 mg/kg body weight
ATE CLP (dermal)	300.391 mg/kg body weight
Phenol (4165-62-2)	
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

nitrobenzene-D5 (4165-60-0)	
LD50 oral rat	855 mg/kg body weight (Rat; Experimental value)
LD50 dermal rabbit	760 mg/kg body weight (Rabbit; Experimental value)
ATE CLP (oral)	855 mg/kg body weight
ATE CLP (dermal)	760 mg/kg body weight

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 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

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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

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.

Based on available data, the classification criteria are not met

Specific target organ toxicity - 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

nitrobenzene-D5 (4165-60-0)	
LC50 fish 2	92 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio; Flow-through system; Fresh water; Experimental value)
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

Revised BNA Surrogate Spike Mix		
Not established.		
Readily biodegradable in water. Biodegradable in the soil. Inhibits biodegradation processes in the soil.		
1.68 g O <sub>2</sub> /g substance		
2.28 g O <sub>2</sub> /g substance		
2.38 g O <sub>2</sub> /g substance		
0.71		
Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.		
0 g O <sub>2</sub> /g substance		
1.95 g O <sub>2</sub> /g substance		
0		
Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.		
0.6 - 1.12 g O <sub>2</sub> /g substance		
1.42 g O <sub>2</sub> /g substance		
1.5 g O <sub>2</sub> /g substance		
0.8 (Literature study)		

# 12.3. Bioaccumulative potential

Revised BNA Surrogate Spike Mix	
Bioaccumulative potential	Not established.

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Phenol (4165-62-2)	
BCF fish 1	20 (BCF)
BCF fish 2	1276 - 1496 (BCF)
BCF other aquatic organisms 1	277 (BCF)
BCF other aquatic organisms 2	3.5 - 16 (BCF)
Log Pow	1.46 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

nitrobenzene-D5 (4165-60-0)		
BCF fish 1	15 (BCF; 672 h; Pimephales promelas)	
BCF fish 2	1.6 - 7.7 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio; Flow-through system; Fresh water; Experimental value; Non deuterium form)	
BCF other aquatic organisms 1	24 (BCF)	
Log Pow	1.85 (Calculated; 1.86; Experimental value; EU Method A.8: Partition Coefficient)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

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

nitrobenzene-D5 (4165-60-0)			
Log Koc	Koc,Other; 118; Calculated value; log Koc; Other; 2.07; Calculated value		
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

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.

Ecology - waste materials : Avoid release to the environment.

# SECTION 14: Transport information

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

14.1. ON 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)

Proper Shipping Name (IATA)

Proper Shipping Name (IMDG)

Proper Shipping Name (IMDG)

FLAMMABLE LIQUID, TOXIC, N.O.S.

FLAMMABLE LIQUID, TOXIC, N.O.S.

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

 Class (ADN)
 : 3

 Classification code (ADN)
 : FT1

 Subsidiary risks (ADR)
 : 6.1

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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 : 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 : S-D EmS-No. (Spillage) : B Stowage category (IMDG)

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

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: 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 PCA Excepted quantities (IATA) · F2 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 ≥ 0,1 % / SCL

Contains no REACH Annex XIV substances.

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : nwg - non-hazardous to water

# 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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