# SAFETY DATA SHEET



Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

# **PENETRON**

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

#### 1.1. Product identifier

: PENETRON Product name

Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Relevant identified uses

Lubricant

#### 1.2.2 Uses advised against

No uses advised against known

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

#### Supplier of the safety data sheet

Novatio\*

Industrielaan 5B

B-2250 Olen

**2** +32 14 25 76 40 **♣** +32 14 22 02 66

info@novatio.be

\*NOVATIO is a registered trademark of Novatech International N.V.

#### Manufacturer of the product

Novatech International N.V.

Industrielaan 5B

B-2250 Olen

**2** +32 14 85 97 37

**4** +32 14 85 97 38

info@tec7.be

### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

+32 14 58 45 45 (BIG)

# SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Flam. Liq.	category 3	H226: Flammable liquid and vapour.
Asp. Tox.	category 1	H304: May be fatal if swallowed and enters airways.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
STOT SE	category 3	H336: May cause drowsiness or dizziness.
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.

## 2.2. Label elements









Contains: Kerosine (petroleum), hydrodesulfurized.

Signal word	Danger
H-statements	
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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#### P-statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves and eye protection/face protection.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

#### 2.3. Other hazards

No other hazards known

# SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
benzenesulfonic acid, mono-C15-36-branched alkyl derivs., sodium salts	90218-04-5 290-676-5	5% <c<15%< td=""><td>Aquatic Chronic 4; H413</td><td>(1)(10)</td><td>Constituent</td></c<15%<>	Aquatic Chronic 4; H413	(1)(10)	Constituent
propan-2-ol 01-2119457558-25	67-63-0 200-661-7	5% <c<15%< td=""><td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td><td>(1)(2)(10)</td><td>Constituent</td></c<15%<>	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
Kerosine (petroleum), hydrodesulfurized 01-2119462828-25	64742-81-0 265-184-9	C>30 %	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(2)(10)	Constituent

<sup>(1)</sup> For H-statements in full: see heading 16

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

#### General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

#### After inhalation:

 $Remove\ the\ victim\ into\ fresh\ air.\ Respiratory\ problems:\ consult\ a\ doctor/medical\ service.$ 

#### After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

## After ingestion:

Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

#### 4.2.1 Acute symptoms

#### After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Narcosis. Headache. Dizziness. Nausea. Disturbances of consciousness.

#### After skin contact:

Tingling/irritation of the skin.

### After eye contact:

Irritation of the eye tissue.

#### After ingestion:

Risk of aspiration pneumonia. Vomiting. Blisters. Irritation of the gastric/intestinal mucosa.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

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<sup>(2)</sup> Substance with a Community workplace exposure limit

<sup>(10)</sup> Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

# SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. BC powder. Carbon dioxide.

#### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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

Upon combustion: CO and CO2 are formed.

#### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

Cool tanks/drums with water spray/remove them into safety. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Face-shield. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus. Heat/fire exposure: compressed air/oxygen apparatus.

# SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment. Large spills/in confined spaces: consider evacuation.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus.

Suitable protective clothing

See heading 8.2

#### 6.2. Environmental precautions

Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

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

Take up liquid spill into absorbent material, e.g.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with a soap solution. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

## 6.4. Reference to other sections

See heading 13.

# SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain

#### 7.2. Conditions for safe storage, including any incompatibilities

## 7.2.1 Safe storage requirements:

 $Storage\ temperature: < 50\ ^\circ C.\ Ventilation\ at\ floor\ level.\ Protect\ against\ frost.\ Provide\ for\ a\ tub\ to\ collect\ spills.\ Meet\ the\ legal\ requirements.$ 

## 7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, (strong) acids, (strong) bases.

## 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

#### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

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# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

#### 8.1.1 Occupational exposure

#### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

#### Belgium

Alcool isopropylique	Time-weighted average exposure limit 8 h	200 ppm
	Time-weighted average exposure limit 8 h	500 mg/m³
	Short time value	400 ppm
	Short time value	1000 mg/m <sup>3</sup>

#### France

Alcool isopropylique	Short time value (VL: Valeur non réglementaire indicative)	400 ppm
	Short time value (VL: Valeur non réglementaire indicative)	980 mg/m³

#### Germany

Propan-2-ol	Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	500 mg/m³

#### UK

1 .	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	999 mg/m³
	Short time value (Workplace exposure limit (EH40/2005))	500 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1250 mg/m³

#### USA (TLV-ACGIH)

2-propanol	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	200 ppm
	Short time value (TLV - Adopted Value)	400 ppm
Kerosene/Jet fuels, as total hydrocarbon vapor	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	200 mg/m³ (P)

<sup>(</sup>P): Application restricted to conditions in which there are negligible aerosol exposures

#### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### Germany

Propan-2-ol (Aceton)	Urin: expositionsende, bzw. schichtende	25 mg/l	11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG
Propan-2-ol (Aceton)	Vollblut: expositionsende, bzw. schichtende	25 mg/l	11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG
Vitamin K-Antagonisten (Quick-Wert)	Vollblut: keine beschränkung	Reduktion auf nicht weniger als 70%	11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG

### USA (BEI-ACGIH)

2-Propanol (Acetone)	Urine: end of shift at end of workweek	40 mg/L	
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# 8.1.2 Sampling methods

If applicable and available it will be listed below.

Isopropanol (Volatile Organic compounds)	NIOSH	2549
Isopropyl Alcohol (Alcohols I)	NIOSH	1400
Isopropyl Alcohol	OSHA	109
Kerosene (Naphthas)	NIOSH	1550

## 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 DNEL/PNEC values

### **DNEL/DMEL - Workers**

propan-2-ol

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	500 mg/m³	
	Long-term systemic effects dermal	888 mg/kg bw/day	

#### **DNEL/DMEL - General population**

<u>propan-2-ol</u>

Effect level (DNEL/DMEL)	Type	Value	Remark
NEL Long-term systemic effects inhalation		89 mg/m³	
	Long-term systemic effects dermal	319 mg/kg bw/day	
	Long-term systemic effects oral	26 mg/kg bw/day	

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#### **PNEC**

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Compartments	Value	Remark
Fresh water	140.9 mg/l	
Marine water	140.9 mg/l	
Aqua (intermittent releases)	140.9 mg/l	
STP	2251 mg/l	
Fresh water sediment	552 mg/kg sediment dw	
Marine water sediment	552 mg/kg sediment dw	
Soil	28 mg/kg soil dw	
Oral	160 mg/kg food	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

#### 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 8.2.1 Appropriate engineering controls

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

#### b) Hand protection:

Gloves.

Materials	Breakthrough time	Thickness
nitrile rubber	> 480 minutes	0.35 mm

#### - materials (good resistance)

Nitrile rubber.

#### c) Eye protection:

Face shield.

#### d) Skin protection:

Protective clothing.

#### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical form	Liquid
Odour	Characteristic odour
Odour threshold	No data available
Colour	No data available on colour
Particle size	Not applicable (liquid)
Explosion limits	0.7 - 12.0 vol %
Flammability	Flammable liquid and vapour.
Log Kow	Not applicable (mixture)
Dynamic viscosity	1 mPa.s ; 20 °C
Kinematic viscosity	1 mm²/s ; 20 °C
Melting point	No data available
Boiling point	78 °C - 250 °C
Flash point	50 °C
Evaporation rate	No data available
Relative vapour density	> 2
Vapour pressure	43 hPa ; 20 ℃
Solubility	Water ; insoluble
Relative density	0.80 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	370 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	No data available

#### 9.2. Other information

Absolute density	800 kg/m³ ; 20 °C
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# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

May be ignited by sparks.

## 10.2. Chemical stability

No data available.

## 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

#### 10.5. Incompatible materials

Oxidizing agents, (strong) acids, (strong) bases.

## 10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### 11.1.1 Test results

#### Acute toxicity

#### PENETRON

No (test)data on the mixture available

benzenesulfonic acid, mono-C15-36-branched alkyl derivs., sodium salts

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	> 5000 mg/kg bw		Rat (male)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 3160 mg/kg bw		Rabbit (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 1.47 mg/l	6 h	Rat (male/female)	Experimental value	

propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time			Remark
						determination	
Oral	LD50	Equivalent to OECD 401	5840 mg/kg bw		Rat	Experimental value	
Dermal	LD50	Equivalent to OECD 402	16400 ml/kg bw	24 h	Rabbit	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 10000 ppm	6 h	Rat (male/female)	Experimental value	

Kerosine (petroleum), hydrodesulfurized

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 420	> 5000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal		Equivalent to OECD 402	> 2000 mg/kg bw		Rabbit (male/female)	Experimental value	
Inhalation (vapours)		Equivalent to OECD 403	> 5.28 mg/l air	4 h	Rat (male/female)	Experimental value	

Judgement is based on the relevant ingredients

#### Conclusion

Not classified for acute toxicity

## Corrosion/irritation

### **PENETRON**

No (test)data on the mixture available

benzenesulfonic acid, mono-C15-36-branched alkyl derivs., sodium salts

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Slightly irritating	OECD 405	1 h - 4 h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Moderately	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
	irritating						

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Route of exposure	Result	Method	Exposure time	Time point	- 1	Value determination	Remark
Eye		Equivalent to OECD 405		24 hours		Experimental value	Single treatment
Skin	Not irritating		4 h	4; 24; 48; 72 hours	Rabbit	Experimental value	

Kerosine (petroleum), hydrodesulfurized

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Not irritating	EPA OTS 798.4500			Rabbit	Experimental value	
Skin	Irritating	Other	24 h		Rabbit	Experimental value	

Classification is based on the relevant ingredients

## Conclusion

Causes skin irritation.

Causes serious eye irritation.

#### Respiratory or skin sensitisation

#### **PENETRON**

No (test)data on the mixture available

propan-2-ol

Route of exposure	Result	Method	Exposure time	Observation time	Species	Value determination	Remark
				point			
Skin	Not sensitizing	OECD 406		'	Guinea pig (male/female)	Experimental value	

Kerosine (petroleum), hydrodesulfurized

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406		Guinea pig (male)	Experimental value	

Judgement is based on the relevant ingredients

#### Conclusion

Not classified as sensitizing for skin

#### Specific target organ toxicity

#### PENETRON

No (test)data on the mixture available

benzenesulfonic acid, mono-C15-36-branched alkyl derivs., sodium salts

arameter	Method	Value	Organ	Effect	Exposure time	Species	Value
							determination
OAEL	Equivalent to	5 %		No effect	4 weeks (5	Rabbit	Experimental
	OECD 410				days/week)	(male/female)	value
DAEL	Equivalent to	25 %	Skin	Irritation	4 weeks (5	Rabbit	Experimental
Į,	OECD 410				days/week)	(male/female)	value
	AEL	OECD 410	OECD 410  AEL Equivalent to 25 %	OECD 410 AEL Equivalent to 25 % Skin	OECD 410  AEL Equivalent to 25 % Skin Irritation	OECD 410 days/week) AEL Equivalent to 25 % Skin Irritation 4 weeks (5	AEL Equivalent to OECD 410  No effect 4 weeks (5 days/week)  Rabbit (male/female)  AEL Equivalent to 25 % Skin Irritation 4 weeks (5 Rabbit

Route of exposure Parameter Value Effect Value Method Organ Exposure time Species determination Data waiving Oral Dermal Data waiving NOAEC OECD 451 5000 ppm No effect 104 weeks (6h/day, Inhalation Rat Experimental (vapours) 5 days/week) (male/female) value

Kerosine (petroleum), hydrodesulfurized

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL		750 mg/kg bw/day		No effect		Rat (female)	Experimental value
Oral	LOAEL		1500 mg/kg bw/day	General	Body weight reduction		Rat (female)	Experimental value
Oral	LOAEL		750 mg/kg bw/day	General	Body weight reduction		Rat (male)	Experimental value
Dermal	NOAEL	OECD 410	> 0.5 ml/kg bw		No effect	4 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Dermal	LOAEL	OECD 410	0.01 ml/kg bw	Skin	Irritation	4 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEL	Equivalent to OECD 413	> 1000 mg/m <sup>3</sup> air		No effect	90 days (continuous)	Rat (female)	Experimental value
Inhalation (vapours)	LOAEL	Equivalent to OECD 413	500 mg/m³ air		Body weight reduction	90 days (continuous)	Rat (male)	Experimental value
Inhalation (vapours)	NOAEC		> 1000 mg/m³ air	Stomach	No effect		Rat (male)	Experimental value

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Classification is based on the relevant ingredients

#### Conclusion

May cause drowsiness or dizziness.

# Mutagenicity (in vitro)

## **PENETRON**

No (test)data on the mixture available

propan-2-ol

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
activation, negative without				
metabolic activation				
Negative with metabolic	Equivalent to OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value
activation, negative without				
metabolic activation				

Kerosine (petroleum), hydrodesulfurized

Result	Method	Test substrate	Effect	Value determination
Negative	· ·	Mouse (lymphoma L5178Y cells)	No effect	Experimental value
Negative	Equivalent to OECD 479	Chinese hamster ovary (CHO)	No effect	Experimental value
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

#### Mutagenicity (in vivo)

#### PENETRON

No (test)data on the mixture available

propan-2-ol

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD		Mouse (male/female)		Experimental value
	474				

Kerosine (petroleum), hydrodesulfurized

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD		Rat (male/female)	Bone marrow	Experimental value
	475				
Negative	Equivalent to OECD		Mouse (male)		Experimental value
	478				

 $\label{lem:lement} \mbox{ Judgement is based on the relevant ingredients }$ 

#### Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

# PENETRON

No (test)data on the mixture available

propan-2-ol

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Inhalation	NOEL	OECD 451	5000 ppm	104 weeks (6h/day,	Rat	No carcinogenic		Experimental
(vanours)				5 days/week)	(male/female)	effect		value

Judgement is based on the relevant ingredients

# Conclusion

Not classified for carcinogenicity

# Reproductive toxicity

# PENETRON

No (test)data on the mixture available

propan-2-ol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	400 mg/kg bw/day	10 day(s)	Rat	No effect	Foetus	Experimental value
Maternal toxicity	NOAEL	Equivalent to OECD 414	400 mg/kg bw/day	10 day(s)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL	Equivalent to OECD 415	853 mg/kg bw/day	21 day(s) - 70 day(s)	Rat (male/female)	No effect		Experimental value

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Kerosine (petroleum), hydrodesulfurized

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 414	1000 mg/kg bw/day	10 day(s)	Rat	No effect	Foetus	Experimental value
	LOAEL	OECD 414	1500 mg/kg bw/day	10 day(s)	Rat	Reduced foetal bodyweights	Foetus	Experimental value
Maternal toxicity	NOAEL	OECD 414	500 mg/kg bw/day	10 day(s)	Rat	No effect	General	Experimental value
	LOAEL	OECD 414	1000 mg/kg bw/day	10 day(s)	Rat	Body weight reduction	General	Experimental value
Effects on fertility	NOAEL (P)		> 1500 mg/kg bw/day		Rat (female)	No effect	Female reproductive organ	Experimental value
	NOAEL (P)		> 3000 mg/kg bw/day		Rat (male)	No effect	Male reproductive organ	Experimental value

Judgement is based on the relevant ingredients

#### Conclusion

Not classified for reprotoxic or developmental toxicity

#### Aspiration hazard

Classification is based on the relevant ingredients May be fatal if swallowed and enters airways.

## Toxicity other effects

PENETRON

No (test)data on the mixture available

#### Chronic effects from short and long-term exposure

**PENETRON** 

No effects known.

# SECTION 12: Ecological information

## 12.1. Toxicity

#### **PENETRON**

No (test)data on the mixture available

propan-2-ol

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	9640 mg/l - 10000 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Lethal
Acute toxicity crustacea	LC50	Equivalent to OECD 202	> 10000 mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	Toxicity threshold		1800 mg/l	7 day(s)	Scenedesmus quadricauda	Static system	Fresh water	Experimental value; Toxicity test
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC		2344 μmol/l	16 day(s)	Daphnia magna		Fresh water	Experimental value; Growth
Toxicity aquatic micro- organisms	Toxicity threshold	Equivalent to DIN 38412/8	1050 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Toxicity test
erosine (netroleum), hydrodesulf		ISO 8192	41676 mg/l	30 minutes	Bacteria			Experimental value; Activated sludge

Kerosine (petroleum), hydrodesulfurized

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LL50		2 mg/l - 5 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EL50	OECD 202	1.4 mg/l	48 h	Daphnia magna	Static system		Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	8.3 mg/l	72 h	Selenastrum capricornutum	Static system		Experimental value; GLP
Long-term toxicity aquatic crustacea	NOEL	OECD 211	0.48 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP

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Classification is based on the relevant ingredients

#### Conclusion

Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

propan-2-ol

#### **Biodegradation water**

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	95 %	21 day(s)	Experimental value

Kerosine (petroleum), hydrodesulfurized

#### **Biodegradation water**

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	58.6 %	28 day(s)	Experimental value

#### Conclusion

Contains non readily biodegradable component(s)

#### 12.3. Bioaccumulative potential

#### **PENETRON**

### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

benzenesulfonic acid, mono-C15-36-branched alkyl derivs., sodium salts

#### Log Kow

-	og kow				
	Method	Remark	Value	Temperature	Value determination
		No data available			

#### propan-2-ol

#### Log Kow

Method	Remark	Value	Temperature	Value determination
Other		0.05	25 °C	Weight of evidence approach

Kerosine (petroleum), hydrodesulfurized

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

#### Conclusion

Contains bioaccumulative component(s)

### 12.4. Mobility in soil

Kerosine (petroleum), hydrodesulfurized

#### Percent distribution

. creciie distribution	TOTAL GISTINGTON					
Method	Fraction air	Fraction biota	Fraction	Fraction soil	Fraction water	Value determination
			sediment			
Mackay level III	91.57 %	0.1 %	2.07 %	4.82 %	1.54 %	Calculated value

### Conclusion

Contains component(s) that adsorb(s) into the soil

## 12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Other adverse effects

# PENETRON

# Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

## Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

### propan-2-ol

# Ground water

Ground water pollutant

#### Kerosine (petroleum), hydrodesulfurized

#### **Ground water**

Ground water pollutant

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# SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

#### **European Union**

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

13 02 08\* (waste engine, gear and lubricating oils: other engine, gear and lubricating oils). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into the sewer. Contains a component for which a prohibition exists against discharge into surface water.

1993

#### 13.1.3 Packaging/Container

#### **European Union**

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

# SECTION 14: Transport information

Road	(ADR	)
------	------	---

14.1. UN number UN number

Oli hamber	1555
14.2. UN proper shipping name	
Proper shipping name	Flammable liquid, n.o.s. (propan-2-ol)
14.3. Transport hazard class(es)	
Hazard identification number	30
Class	3
Classification code	F1
14.4. Packing group	
Packing group	III
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	·
Special provisions	274
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for
	liquids. A package shall not weigh more than 30 kg. (gross mass)
l (RID)	
14.1. UN number	1
UN number	1993
14.2. UN proper shipping name	
Proper shipping name	Flammable liquid, n.o.s. (propan-2-ol)
4.3. Transport hazard class(es)	
Hazard identification number	
Class	30
	3
Classification code	
Classification code 14.4. Packing group	3
Classification code	3 F1
Classification code 14.4. Packing group	3 F1
Classification code 14.4. Packing group Packing group Labels	3 F1
Classification code 14.4. Packing group Packing group Labels	3 F1
Classification code  14.4. Packing group Packing group Labels  14.5. Environmental hazards Environmentally hazardous substance mark	3 F1 III 3
Classification code  14.4. Packing group Packing group Labels  14.5. Environmental hazards Environmentally hazardous substance mark	3 F1 III 3
Classification code  14.4. Packing group Packing group Labels  14.5. Environmental hazards Environmentally hazardous substance mark  14.6. Special precautions for user	3 F1 III 3
Classification code  14.4. Packing group Packing group Labels  14.5. Environmental hazards Environmentally hazardous substance mark  14.6. Special precautions for user Special provisions	3 F1 III 3 yes

#### Inland waterways (ADN)

14.1. UN number	
UN number	1993
14.2. UN proper shipping name	
Proper shipping name	Flammable liquid, n.o.s. (propan-2-ol)

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	PENETRON
14.3. Transport hazard class(es)	
Class	3
Classification code	F1
14.4. Packing group	
Packing group	III
Labels	3
14.5. Environmental hazards	j3
Environmentally hazardous substance mark	lung
	yes
14.6. Special precautions for user	274
Special provisions	274
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)
(IMDG/IMSBC)	
14.1. UN number	
UN number	1993
14.2. UN proper shipping name	
Proper shipping name	Flammable liquid, n.o.s. (propan-2-ol; Kerosine (petroleum), hydrodesulfurized)
14.3. Transport hazard class(es)	
Class	3
14.4. Packing group	
Packing group	III
Labels	3
14.5. Environmental hazards	·
Marine pollutant	Р
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	1/
Special provisions	223
Special provisions	274
Special provisions	955
Limited quantities	Combination packagings: not more than 5 liters per inner packaging fo
aca quantities	liquids. A package shall not weigh more than 30 kg. (gross mass)
L4.7. Transport in bulk according to Annex II of Marpol and the	
Annex II of MARPOL 73/78	Not applicable, based on available data
(ICAO-TI/IATA-DGR)	inter applicable, success on a range adda
14.1. UN number	1
UN number	1993
14.2. UN proper shipping name	
Proper shipping name	Flammable liquid, n.o.s. (propan-2-ol)
14.3. Transport hazard class(es)	
Class	3
14.4. Packing group	
Packing group	III
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	A3
to the first term of the first	101

# SECTION 15: Regulatory information

limited quantities: maximum net quantity per packaging

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

### **European legislation:**

VOC content Directive 2010/75/EU

VOC content	Remark
73.62 %	
588.960 g/l	

10 L

#### **REACH Annex XVII - Restriction**

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
7	, ,	Shall not be used in:     ornamental articles intended to produce light or colour effects by means of different

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· propan-2-ol · Kerosine (petroleum),	hydrodesulfurized	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:  (a) 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;  (b) 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;  (c) hazard class 4.1;  (d) hazard class 5.1.	phases, for example in ornamental lamps and ashtrays,  — tricks and jokes,  — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:  — can be used as fuel in decorative oil lamps for supply to the general public, and,  — present an aspiration hazard and are labelled with R65 or H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:  a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";  b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";  c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decor
· propan-2-ol · Kerosine (petroleum),	hydrodesulfurized	2 or 3, flammable solids category 1 or 2,	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:  — metallic glitter intended mainly for decoration,  — artificial snow and frost,  — "whoopee" cushions,  — silly string aerosols,  — imitation excrement,  — horns for parties,  — decorative flakes and foams,  — artificial cobwebs,  — stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:  "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

# National legislation Belgium

PENETRON

No data available

## **National legislation The Netherlands**

PENETRON

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	A (2)

### **National legislation France**

PENETRON

No data available

## **National legislation Germany**

PENETRON

WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)	
propan-2-ol		
TA-Luft	5.2.5	
TRGS900 - Risiko der Fruchtschädigung	Propan-2-ol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden	

## **National legislation United Kingdom**

**PENETRON** 

No data available

## Other relevant data

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#### PENETRON

No data available

#### propan-2-ol

	TLV - Carcinogen	2-propanol; A4	
IARC - classification 3; Isopropanol		3; Isopropanol	
K	Kerosine (petroleum), hydrodesulfurized		
	Skin absorption	Kerosene/Jet fuels, as total hydrocarbon vapor; Skin; Danger of cutaneous absorption	
	TLV - Carcinogen	Kerosene/Jet fuels, as total hydrocarbon vapor; A3	

#### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

# **SECTION 16: Other information**

#### Full text of any H-statements referred to under headings 2 and 3:

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eve irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

(\*) INTERNAL CLASSIFICATION BY BIG

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

LC50 Lethal Concentration 50 %

LD50 Lethal Dose 50 %

NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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