

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

Olima Kristal

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

1.1. Product identifier

: Qlima Kristal **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

Liquid fuel for portable heaters

1.2.2 Uses advised against

No uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

PVG LIQUIDS NV

Belgicastraat 1C - Haven 2290

B-9042 Gent

2 +32 9 250 90 80

liquid600@pvg.eu

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
Asp. Tox.	category 1	H304: May be fatal if swallowed and enters airways.

2.2. Label elements



Contains: hydrocarbons, C11-C12, isoalkanes, < 2% aromatics; hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics.

Signal word Danger

H-statements

May be fatal if swallowed and enters airways.

P-statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P331 Do NOT induce vomiting.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name REACH Registration No	CAS No EC No List No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	918-167-1		Flam. Liq. 3; H226 Asp. Tox. 1; H304 EUH066	(1)(10)	Constituent	
hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics	927-676-8		Asp. Tox. 1; H304 EUH066	(1)(10)	Constituent	

(1) For H- and EUH-statements in full: see section 16

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

Note: numbers 9xx-xxx-x are provisional list numbers assigned by Echa pending an official EC inventory number

SECTION 4: First aid measures

4.1. Description of first aid measures

General

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Headache. Dizziness.

After skin contact:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

After eye contact:

No effects known.

After ingestion:

Risk of aspiration pneumonia.

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

${\bf 5.1.2\ Unsuitable\ extinguishing\ media:}$

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

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:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 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

At temperature > flashpoint: use spark-/explosionproof appliances. Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Avoid prolonged and repeated contact with skin. Remove contaminated clothing immediately. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Meet the legal requirements. Store at ambient temperature. Store in a dry area. Keep container in a well-ventilated place.

7.2.2 Keep away from:

Heat sources, oxidizing agents.

7.2.3 Suitable packaging material:

Carbon steel, polyethylene, polypropylene, stainless steel, carbon steel, polyester.

7.2.4 Non suitable packaging material:

EPDM, butyl rubber, natural rubber, polystyrene.

7.3. Specific end use(s)

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

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.

b) National biological limit values

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

8.1.2 Sampling methods

If applicable and available it will be listed below.

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 Threshold values

If applicable and available it will be listed below.

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

At temperature > flashpoint: use spark-/explosionproof appliances. Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Avoid prolonged and repeated contact with skin. Do not eat, drink or smoke during work.

a) Respiratory protection:

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Respiratory protection not required in normal conditions.

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b) Hand protection:

Protective gloves against chemicals (EN 374).

	Measured breakthrough time	Thickness	Protection index	Remark
nitrile rubber	> 480 minutes	0.38 mm	Class 6	

c) Eye protection:

Face shield (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 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	Mild odour			
Odour threshold	No data available in the literature			
Colour	Colourless			
Translucency	Clear			
Particle size	Not applicable (liquid)			
Explosion limits	0.5 - 6.0 vol % ; Extrapolated value			
Flammability	Not classified as flammable			
Log Kow	Not applicable (mixture)			
Dynamic viscosity No data available in the literature				
Kinematic viscosity	2.15 mm²/s ; 20 °C ; ASTM D7042			
	1.53 mm²/s ; 40 °C ; ASTM D7042			
Melting point	< -113 °C ; Pour point ; ASTM D5950			
Boiling point	186 °C - 252 °C ; ASTM D86			
Relative vapour density	> 10			
Vapour pressure	No data available in the literature			
Solubility	Water ; insoluble			
Relative density	0.77 ; 15 °C			
Absolute density	770 kg/m³ ; 15 °C			
Decomposition temperature	No data available in the literature			
Auto-ignition temperature	215 °C; Extrapolated value			
Flash point	66 °C ; ASTM D93			
рН	Not applicable (non-soluble in water)			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Temperature above flashpoint: higher fire/explosion hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

At temperature > flashpoint: use spark-/explosionproof appliances. Keep away from naked flames/heat. In finely divided state: use spark-/ explosionproof appliances. Finely divided: keep away from ignition sources/sparks.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Test results

Acute toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	1-1	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	> 5000 mg/kg bw		Rat (male / female)	Read-across	
Dermal	LD50		2200 mg/kg bw - 2500 mg/kg bw	24 h	Rat (male / female)	Read-across	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 4.95 mg/l air	4 h	Rat (male / female)	Read-across	(maximum achievable concentration)

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD	> 15000 mg/kg bw		Rat (male /	Experimental value	
		423			female)		
Dermal	LD50	Equivalent to OECD	> 3160 ml/kg bw	24 h	Rabbit (male /	Experimental value	
		402			female)		
Inhalation (aerosol)	LC50	Equivalent to OECD	> 5.9 mg/l	4 h	Rat (male /	Experimental value	
		403			female)		

Conclusion

Not classified for acute toxicity

Corrosion/irritation

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Not irritating	OECD 405		24; 72 hours	Rabbit	Read-across	
Skin	Not irritating	Equivalent to OECD 404	4 h	24; 48; 72 hrs; 14 days	Rabbit	Read-across	
Skin	Not irritating	Human observation		24; 48; 72 hours	Human	Read-across	

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	Single treatment
Skin	Not irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

Conclusion

Not classified as irritating to the eyes

Not classified as irritating to the skin

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

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No (test)data on the mixture available

Judgement is based on the relevant ingredients hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Route of exposure	Result	Method	•	Observation time	Species	Value determination	Remark
				point			
Skin	Not sensitizing	Equivalent to OECD 406			Guinea pig (female)	Read-across	
Skin	Not sensitizing	Human observation			Human (male / female)	Read-across	

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

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

Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

Specific target organ toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 408	> 1000 mg/kg bw/day		No effect	13 weeks (7 days / week)	Rat (male / female)	Read-across
Dermal								Data waiving
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	> 10400 mg/m³ air			13 weeks (6h / day, 5 days / week)	Rat (male / female)	Read-across

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 408	> 1000 mg/kg bw/day		No effect	13 weeks (daily)	Rat (male / female)	Read-across
Dermal								Data waiving
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	> 10400 mg/m³ air			13 weeks (6h / day, 5 days / week)	, ,	Experimental value

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	OECD 471	Bacteria (S.typhimurium)	No effect	Read-across	
activation, negative					
without metabolic					
activation					
Negative with metabolic	Equivalent to OECD 479	Chinese hamster ovary	No effect	Read-across	
activation, negative		(CHO)			
without metabolic					
activation					

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
activation, negative					
without metabolic					
activation					
Negative with metabolic	Equivalent to OECD 473	Human lymphocytes	No effect	Experimental value	
activation, negative					
without metabolic					
activation					

Mutagenicity (in vivo)

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>hydrocarbons, C11-C12, isoalkanes, < 2% aromatics</u>

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Inhalation (vapours))	Equivalent to OECD	5 days (6h / day)	Rat (male / female)		Read-across
	478				

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (stomach tube))	Equivalent to OECD 474		Mouse (male / female)		Experimental value
Negative (Inhalation (vapours))	Equivalent to OECD 478	5 days (6h / day)	Rat (male)		Experimental value

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

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Conclusion

Not classified for carcinogenicity

Reproductive toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

	Parameter	Method	Value	Exposure time	Species	Effect	- 0	Value determination
Developmental toxicity (Inhalation (vapours))	NOAEC	Developmenta I toxicity study	1200 ppm	10 days (gestation, daily)	Rat	No effect		Read-across
Maternal toxicity (Inhalation (vapours))	NOAEC	Developmenta I toxicity study	1200 ppm	10 days (gestation, daily)	Rat	No effect		Read-across
Effects on fertility								Data waiving

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

	Parameter	Method	Value	Exposure time	Species	Effect	- 0	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	≥ 1000 mg/kg bw/day	10 day(s)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	> 1000 mg/kg bw/day	10 day(s)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL	OECD 416	≥ 750 mg/kg bw/day		Rat (male / female)	No effect		Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

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

Toxicity other effects

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Classification is based on the relevant ingredients <u>hydrocarbons</u>, C11-C12, isoalkanes, < 2% aromatics

Route of	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
exposure								determination
				Skin	Skin dryness or			Literature study
					cracking			

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

Route of	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
exposure								determination
Skin				Skin	Skin dryness or			Literature study
					cracking			

Conclusion

Repeated exposure may cause skin dryness or cracking.

Chronic effects from short and long-term exposure

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No effects known.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

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No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

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hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	> 1000 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Read-across; GLP
Acute toxicity crustacea	EL50	OECD 202	> 1000 mg/l	48 h	Daphnia magna	Static system	Fresh water	Read-across; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	> 1000 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system		Read-across; GLP
Long-term toxicity fish	NOELR	OECD 210	≥ 100 mg/l WAF	32 day(s)	Pimephales promelas	Semi-static system	Fresh water	Read-across; GLP
Long-term toxicity aquatic crustacea	NOELR	OECD 211	> 1 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50		> 788000 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EL50	OECD 202	> 1000 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	EL50	OECD 201	> 1000 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system		Experimental value; GLP
Long-term toxicity fish	NOELR		> 1000 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR; Growth rate
Toxicity aquatic micro- organisms	EL50		> 1000 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth inhibition

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Biodegradation water

Method	Value	Duration	Value determination	
Equivalent to OECD 301F	31 %; Oxygen consumption	28 day(s)	Read-across	

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F	76.6 %; Oxygen consumption	28 day(s)	Experimental value

Conclusion

Water

Biodegradable in water

No significant hydrolysis

12.3. Bioaccumulative potential

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Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.01	7 l/kg - 9550 l/kg;		Pisces	QSAR
		Fresh weight			

Log Kow

Method	Remark	Value	Temperature	Value determination
KOWWIN		17 - 6 /	20 °C	QSAR

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.00	144.3 l/kg		Pisces	Calculated value

Log Kow

Method	Remark	Value	Temperature	Value determination
		2 - 9		Calculated

Conclusion

Does not contain bioaccumulative component(s)

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12.4. Mobility in soil

hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

(log) Koc

Parameter	Method	Value	Value determination
Koc		52 - 356205	QSAR
log Koc		1.7 - 5.6	Calculated value

Percent distribution

Method	Fraction air		Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	28 %	0 %	47 %	22 %	2.9 %	Calculated value

hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

(log) Koc

Parameter	Method	Value	Value determination
log Koc		4.2	Calculated value

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	46.1 %	0 %	36.1 %	15.1 %	2.7 %	Calculated value

Conclusion

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

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

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Greenhouse gases

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)

hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Groundwater

Groundwater pollutant

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 and Regulation (EU) No 2017/997. Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

13 07 03* (wastes of liquid fuels: other fuels (including mixtures)). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

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 drains or the environment. Dispose of at authorized waste collection point.

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.	4.1. UN number					
	Transport	Not subject				
14.	2. UN proper shipping name					
14.	14.3. Transport hazard class(es)					
	Hazard identification number					
	Class					

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	Classification code	
1/	4. Packing group	
17.	Packing group	
	Labels	
1.1	5. Environmental hazards	
	Environmentally hazardous substance mark	no
		no
14.	6. Special precautions for user Special provisions	
	Limited quantities	
Rail (RID)	
14.	1. UN number	1
	Transport	Not subject
14.	2. UN proper shipping name	
14.	3. Transport hazard class(es)	,
	Hazard identification number	
	Class	
	Classification code	
14.	4. Packing group	
	Packing group	
	Labels	
14.	5. Environmental hazards	
	Environmentally hazardous substance mark	no
14.	6. Special precautions for user	
	Special provisions	
	Limited quantities	
Inlan	d waterways (ADN)	
	• • •	
14.	1. UN number/ID number UN number/ID number	9003
1.1	·	3003
14.	2. UN proper shipping name	
	Proper shipping name	substances with a flash-point above 60 °C and not more than 100 °C
14.	3. Transport hazard class(es)	T
	Class	9
	Classification code	M12
14.	4. Packing group	1
	Packing group	
	Labels	
14.	5. Environmental hazards	
	Environmentally hazardous substance mark	no
14.	6. Special precautions for user	
	Special provisions	
	Limited quantities	
	Specific mention	Dangerous only when carried in tank vessels.
Sea (IMDG/IMSBC)	·
	1. UN number	
14.	Transport	Not subject
1.4	2. UN proper shipping name	inot subject
	3. Transport hazard class(es)	
14.	Class	
1/	4. Packing group	
14.	Packing group	
	Labels	
1.1	5. Environmental hazards	
14.	Marine pollutant	
	·	
4.4	Environmentally hazardous substance mark	no
14.	6. Special precautions for user	
	Special provisions	
	Limited quantities	
14.	7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78	Not applicable, based on available data
Air (I	CAO-TI/IATA-DGR)	
14.	1. UN number/ID number	
	Transport	Not subject
14.	2. UN proper shipping name	
	3. Transport hazard class(es)	
	Class	
14.	4. Packing group	
	Packing group	

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Labels	
5. Environmental hazards	
Environmentally hazardous substance mark	no
6. Special precautions for user	
Special provisions	
assenger and cargo transport	
Limited quantities: maximum net quantity per packaging	
	Labels 5. Environmental hazards Environmentally hazardous substance mark 6. Special precautions for user Special provisions assenger and cargo transport Limited quantities: maximum net quantity per packaging

SECTION 15: Regulatory information

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
50 %	

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

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

	substances, mixtures and articles.	
	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (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.	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different 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 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 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 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 H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
· hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	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 Qlima Kristal

No data available

National legislation The Netherlands Qlima Kristal

Waterbezwaarlijkheid A (4); Algemene Beoordelingsmethodiek (ABM)

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National legislation France

Qlima Kristal

No data available

National legislation Germany

Qlima Kristal

	WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
hydrographene C11 C12 isoalkanes + 20/ arametics		

hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

TA-Luft 5.2.5/I hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

TA-Luft 5.2.5

National legislation Austria

Qlima Kristal

No data available

National legislation United Kingdom

Qlima Krista

No data available

Other relevant data

Qlima Kristal

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

(*) INTERNAL CLASSIFICATION BY BIG

ADI Acceptable daily intake

AOEL Acceptable operator exposure level

ATE Acute Toxicity Estimate
BCF Bioconcentration Factor
BEI Biological Exposure Indices

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

DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC10 Effect Concentration 10 %
EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

GLP Good Laboratory Practice
LC0 Lethal Concentration 0 %
LC50 Lethal Concentration 50 %
LD50 Lethal Dose 50 %

LOAEC/LOAEL Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level

NOAEC/NOAEL No Observed Adverse Effect Concentration/No Observed Adverse Effect Level

NOEC/NOEL No Observed Effect Concentration/No Observed Effect Level
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. 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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