

SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010



TEC7 CLEANER AEROSOL

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

1.1 Product identifier:

Product name : TEC7 CLEANER AEROSOL
Artikelnummer : 683041000
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

Cleansing product

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

TEC7 N.V.
Industrielaan 5B
B-2250 Olen
Tel: +32 14 85 97 37
Fax: +32 14 85 97 38
info@tec7.be

Manufacturer of the product

TEC7 N.V.
Industrielaan 5B
B-2250 Olen
Tel: +32 14 85 97 37
Fax: +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:

2.1.1 Classification according to Regulation EC No 1272/2008

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

Class	Category	Hazard statement code(s)
Flam. Aerosol	category 1	H222: Extremely flammable aerosol.
STOT SE	category 3	H336: May cause drowsiness or dizziness.
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

F+; R12 - Extremely flammable.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapours may cause drowsiness and dizziness.

R52-53 - Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

2.2 Label elements:

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labels

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Extremely flammable

R-phrases

- 12 Extremely flammable
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
66 Repeated exposure may cause skin dryness or cracking
67 Vapours may cause drowsiness and dizziness

S-phrases

- (02) (Keep out of the reach of children)
23 Do not breathe spray
(46) (If swallowed, seek medical advice immediately and show this container or label)
51 Use only in well-ventilated areas
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Additional recommendations

- Keep away from sources of ignition - No smoking.
Keep out of the reach of children.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.

2.3 Other hazards:

DSD/DPD

- May be ignited by sparks
Gas/vapour spreads at floor level: ignition hazard
Aerosol may explode under the effect of heat

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 DSD/DPD	Classification according to CLP	Note	Remark
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9 265-150-3	C>50%	R10 Xn; R65 R66 R67 R52-53	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 3; H412	(1)(10)	UVCB
butane	106-97-8 203-448-7	10% <C<25%	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
propane	74-98-6 200-827-9	2.5% <c<10%	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant

- (1) For R-phrases and H-statements in full: see heading 16
(2) Substance with a Community workplace exposure limit
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek medical advice.

After inhalation:

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

After skin contact:

Wash immediately with lots of water. Take victim to a doctor if irritation persists.

After eye contact:

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Rinse with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. 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: Central nervous system depression. Narcosis.

After skin contact:

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

After eye contact:

No effects known.

After ingestion:

No effects known.

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:

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:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion. 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. Protective clothing. 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 explosionproof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Dam up the liquid spill.

6.3 Methods and material for containment and cleaning up:

Take up liquid spill into absorbent material, e.g.: dry sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. 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:

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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. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Keep out of direct sunlight. Ventilation at floor level. Fireproof storeroom. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Aerosol.

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 .

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.

Indicative exposure limit (the Netherlands)

n-Butaan	Time-weighted average exposure limit 8 h	1430 mg/m ³	
	Time-weighted average exposure limit, calculated	592 ppm	

Limit Value (Belgium)

Hydrocarbures aliphatiques sous forme gazeuse : (Alcanes C1-C4)	Short time value	- ppm - mg/m ³	
	Time-weighted average exposure limit 8 h	1000 ppm - mg/m ³	
	Short time value	- ppm - mg/m ³	
	Time-weighted average exposure limit 8 h	1000 ppm - mg/m ³	

TLV (USA)

Aliphatic hydrocarbon gases - alkanes (C1-C4)	Time-weighted average exposure limit 8 h	1000 ppm	
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TRGS 900 (Germany)

Butan	Time-weighted average exposure limit 8 h	1000 ppm 2400 mg/m ³	
Propan	Time-weighted average exposure limit 8 h	1800 mg/m ³	

Limit Value (France)

n-Butane	Short time value	- ppm - mg/m ³	
	Time-weighted average exposure limit 8 h	800 ppm 1900 mg/m ³	

Limit Value (UK)

Butane	Short time value	750 ppm 1810 mg/m ³	
	Time-weighted average exposure limit 8 h	600 ppm 1450 mg/m ³	

b) National biological limit values

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

8.1.2 Sampling methods

Product name	Test	Number
No data available		

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

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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

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.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. 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.

c) Eye protection:

Protective goggles.

d) Skin protection:

Head/neck 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	Aerosol
Odour	Characteristic odour
Odour threshold	No data available
Colour	No data available on colour
Particle size	Not applicable
Explosion limits	0.6 - 9.5 vol %
Flammability	Extremely flammable aerosol.
Log Kow	No data available
Dynamic viscosity	1 mPa.s ; 20 °C
Kinematic viscosity	1 mm ² /s ; 20 °C
Melting point	No data available
Boiling point	130 - 166 °C
Flash point	24 °C
Evaporation rate	0.35 ; butyl acetate
Vapour pressure	8530 hPa ; 20 °C
Relative vapour density	> 1
Solubility	water ; insoluble
Relative density	0.764 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	200 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

Physical hazards

Flammable aerosol

9.2 Other information:

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity:

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

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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:

No data available.

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

TEC7 CLEANER AEROSOL

No (test) data on the mixture available

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	OECD 401	>5000 mg/kg bw		Rat	Male/female	Read-across
Oral	LD50	OECD 401	>15000 mg/kg bw		Rat	Male/female	Read-across
Dermal	LD50	Equivalent to OECD 402	>3160 mg/kg bw	24 h	Rabbit	Male/female	Read-across
Inhalation (vapours)	LC50	Equivalent to OECD 403	>5000 mg/m ³ air	8 h	Rat	Male	Read-across

butane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Inhalation	LC50		658 mg/l	4 h	Rat		literature
Inhalation	LC50		276000 ppm	4 h	Rat		literature

propane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Inhalation	LC50		513 mg/l	4 h	Rat		literature
Inhalation	LC50		280000 ppm	4 h	Rat		literature

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

Not classified for acute toxicity

Corrosion/irritation

TEC7 CLEANER AEROSOL

No (test) data on the mixture available

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating	Equivalent to OECD 405		1; 24; 48; 72; 168 hours	Rabbit	Read-across
Skin	Not irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Respiratory or skin sensitisation

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No (test) data on the mixture available

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hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Not sensitizing	Equivalent to OECD 406		24; 48 hours	Guinea pig	Male/female	Read-across

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

Not classified as sensitizing for skin

Specific target organ toxicity

TEC7 CLEANER AEROSOL

No (test)data on the mixture available

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	NOAEL	OECD 422	>1000 mg/kg bw/day		No effect		Rat	Male/female	Read-across
Oral	NOAEL	Equivalent to OECD 408	>5000 mg/kg bw/day		No effect	13 weeks (daily)	Rat	Male/female	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	>2200 mg/m ³ air		No effect	14 weeks (6h/day, 5 days/week)	Rat	Female	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	>10400 mg/m ³ air		No effect	13 weeks (6h/day, 5 days/week)	Rat	Male/female	Read-across

Insufficient data available. Classification according to Regulation (EC) No 1272/2008 - Annex VI

Conclusion

Low sub-chronic toxicity by the oral route

Low sub-chronic toxicity by inhalation route

May cause drowsiness or dizziness.

Mutagenicity (in vitro)

TEC7 CLEANER AEROSOL

No (test)data on the mixture available

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)		Read-across
Negative	OECD 471	Bacteria (S.typhimurium)		Read-across

Mutagenicity (in vivo)

TEC7 CLEANER AEROSOL

No (test)data on the mixture available

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse	Male/female		Read-across
Negative	Equivalent to OECD 478	5 days (6h/day)	Rat	Male/female		Read-across

Carcinogenicity

TEC7 CLEANER AEROSOL

No (test)data on the mixture available

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination	Organ	Effect
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	>2200 mg/m ³ air	105 weeks (6h/day, 5 days/week)	Rat	Female	Read-across		No effect

Reproductive toxicity

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No (test)data on the mixture available

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hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

	Parameter	Method	Value	Exposure time	Species	Gender		Organ	Value determination
Effects on fertility	NOAEL	Equivalent to OECD 421	>1000 mg/kg bw/day		Rat	Male/female	No effect		Read-across

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion CMR

Not classified for reprotoxic or developmental toxicity

Not classified for mutagenic or genotoxic toxicity

Not classified for carcinogenicity

Toxicity other effects

TEC7 CLEANER AEROSOL

No (test) data on the mixture available

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
				Skin dryness or cracking				Literature study

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

Repeated exposure may cause skin dryness or cracking.

11.1.2 Other information

TEC7 CLEANER AEROSOL

No (test) data on the mixture available

butane

TLV - Carcinogen	()
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propane

TLV - Carcinogen	()
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SECTION 12: Ecological information

12.1 Toxicity:

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No (test) data on the mixture available

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	>10 - <30 mg/l	96 h	Oncorhynchus mykiss	Semi-static	Fresh water	Experimental value
Acute toxicity invertebrates	EC50	OECD 202	>22 - <46 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50	OECD 201	> 1000 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value
	NOEL	OECD 201	< 1 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value
Long-term toxicity fish	NOEL		0.182 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR
Long-term toxicity aquatic invertebrates	NOEL		0.317 mg/l	21 day(s)	Daphnia magna		Fresh water	QSAR

butane

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		>1000 mg/l	96 h	Pimephales promelas			

propane

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		> 1000 mg/l	96 h	Pisces			

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

Harmful to fishes

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Harmful to invertebrates (Daphnia)

Not harmful to algae

12.2 Persistence and degradability:

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	89 %	28 day(s)	Experimental value

butane

Biodegradation water

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	70 %		Experimental value

propane

Biodegradation water

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	70 %		Experimental value

Conclusion

Contains readily biodegradable component(s)

12.3 Bioaccumulative potential:

butane

Log Kow

Method	Value	Temperature	Value determination
	2.89		Experimental value

propane

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		9 - 25		Pisces	

Log Kow

Method	Value	Temperature	Value determination
	2.3		Experimental value

Conclusion

No straightforward conclusion can be drawn based upon the available test results

12.4 Mobility in soil:

TEC7 CLEANER AEROSOL

(log) Koc

Parameter	Method	Value	Value determination
			No data available

Conclusion

No (test)data on mobility of the components of the mixture available

12.5 Results of PBT and vPvB assessment:

Substance does not meet the criteria of PBT according to Annex XIII of Regulation (EC) No 1907/2006, so is not PBT.

12.6 Other adverse effects:

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Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

butane

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

propane

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

SECTION 13: Disposal considerations

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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

Waste material code (Directive 2008/98/EC, decision 2001/118/EC).

14 06 03* (other solvents and solvent mixtures). Depending on branch of industry and production process, also other EURAL codes may be applicable.

Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Specific treatment. 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. Use appropriate containment to avoid environmental contamination.

13.1.3 Packaging/Container

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	1950
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14.2 UN proper shipping name:

Proper shipping name	Aerosols
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14.3 Transport hazard class(es):

Hazard identification number	
Class	2
Classification code	5F

14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14.1 UN number:

UN number	1950
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14.2 UN proper shipping name:

Proper shipping name	Aerosols
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14.3 Transport hazard class(es):

Hazard identification number	23
Class	2
Classification code	5F

14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

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14.1 UN number:

UN number	1950
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14.2 UN proper shipping name:

Proper shipping name	Aerosols
----------------------	----------

14.3 Transport hazard class(es):

Class	2
Classification code	5F

14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG)

14.1 UN number:

UN number	1950
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14.2 UN proper shipping name:

Proper shipping name	Aerosols
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14.3 Transport hazard class(es):

Class	2.1
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14.4 Packing group:

Labels	2.1
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14.5 Environmental hazards:

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Special provisions	190
Special provisions	
Special provisions	327
Special provisions	344
Special provisions	
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Annex II of MARPOL 73/78	Not applicable
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Air (ICAO-TI/IATA-DGR)

14.1 UN number:

UN number	1950
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14.2 UN proper shipping name:

Proper shipping name	Aerosols
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14.3 Transport hazard class(es):

Class	2.1
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14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	A145
Special provisions	A167
Special provisions	A802
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	30 kg G

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SECTION 15: Regulatory information

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

European legislation:

Volatile organic compounds (VOC)

100 %

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
· hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/54/EC.	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 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 decorative lamps, labelled R65 or H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'
· hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics · butane · propane	Substances meeting the criteria of flammability in Directive 67/548/ EEC and classified as flammable, highly flammable or extremely flammable regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 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, — "whoopie" 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. _____ (***) OJ L 147, 9.6.1975, p. 40.

National legislation

- The Netherlands

Waterbevaarlijkheid (for NL)	8
Waste identification other lists of waste materials	LWCA (the Netherlands): KGA category 06

- Germany

WGK	2	Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
TA-Luft	butane	TA-Luft Klasse 5.2.5
TA-Luft	propane	TA-Luft Klasse 5.2.5

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

Labelling according to Regulation EC No 1272/2008 (CLP)

Hazard pictograms

Reason for revision: 453/2010

Publication date: 2010-07-09

Date of revision: 2012-05-10

Revision number: 0200

Product number: 49027

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**Signal word**

Danger

H-statements

- H222 Extremely flammable aerosol.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

P-statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.

Supplemental information

- EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of any R-phrases referred to under headings 2 and 3:

- R12 Extremely flammable
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness
R10 Flammable
R65 Harmful: may cause lung damage if swallowed

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

- H222 Extremely flammable aerosol.
H220 Extremely flammable gas.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H280 Contains gas under pressure; may explode if heated.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

- DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

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. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.