

Trade name: Pelikan Fixierspray

Current version: 4.0.0, issued: 10.08.2015 Region: GB Replaced version: 3.0.0, issued: 08.10.2014

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

1.1 Product identifier

Trade name

Pelikan Fixierspray

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

Relevant identified uses of the substance or mixture

fixing agent

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Pelikan Vertriebsgesellschaft mbH & Co. KG Postfach 11 07 55

30102 Hannover

GERMANY

+49 (0) 511 69 69 - 0 Telephone no.

Information provided by / telephone

Product Safety 030-4393-0 (8:30 to 16:30)

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 **Emergency telephone number**

Giftnotruf Berlin +49 (0) 30 30 686 - 790 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aerosol 1; H222 Aquatic Chronic 3; H412 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) nº 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

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

Hazard pictograms





Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.



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Precautionary statements

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

P102 Keep out of reach of children.

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P271 Use only outdoors or in a well-ventilated area.

P405 Store locked up.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Mixture (preparation)



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Hazardous ingredients

	Hazardous ingredients					
No	Substance name		Additional information			
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%		
	REACH no					
1	butane					
	106-97-8	Flam. Gas 1; H220	> 25.00 - < 50.00	%-b.w.		
	203-448-7	Press. Gas				
	601-004-00-0					
	-					
2	Hydrocarbons, C9-C	10, n-alkanes, isoalkanes, cyclics, <2% aromatics				
	-	Aquatic Chronic 3; H412	> 16.00 - < 25.00	%-b.w.		
	927-241-2	Asp. Tox. 1; H304				
	-	Flam. Liq. 3; H226				
	01-2119471843-32	STOT SE 3; H336				
		EUH066				
3	propane					
	74-98-6	Flam. Gas 1; H220	> 10.00 - < 25.00	%-b.w.		
	200-827-9	Press. Gas		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	601-003-00-5					
	-					
4	Hydrocarbons, C7, r	n-alkanes, isoalkanes, cyclics				
	-	Aquatic Chronic 2; H411	> 3.00 - < 10.00	%-b.w.		
	927-510-4	Asp. Tox. 1; H304	10.00	, , , , , , , , , , , , , , , , , , , ,		
	-	Flam. Liq. 2; H225				
	_	Skin Irrit. 2; H315				
		STOT SE 3; H336				
5	propan-2-ol	0101020,11000				
	67-63-0	Eye Irrit. 2; H319	> 3.00 - < 10.00	%-b.w.		
	200-661-7	Flam. Liq. 2; H225	3.00 - \ 10.00	70-D.W.		
	603-117-00-0	STOT SE 3; H336				
	01-2119457558-25	3101 3L 3, 11330				
6	1-ethoxypropan-2-ol					
U	1569-02-4	Flam. Liq. 3; H226	> 3.00 - < 10.00	%-b.w.		
	216-374-5	STOT SE 3; H336	> 3.00 - < 10.00	76-D.W.		
		3101 3E 3, F1330				
	603-177-00-8					
7	Hydrocarbone C6 i	□ soalkanes, <5% n-hexane				
-	nyurocarbons, co, i	Flam. Liq. 2; H225	> 3.00 - < 10.00	%-b.w.		
	931-254-9	Asp. Tox. 1; H304	> 3.00 - < 10.00	76-D.W.		
	931-234-9	Skin Irrit. 2; H315				
	-	STOT SE 3; H336				
	-	Aquatic Chronic 2; H411				
8	isobutane	/ Madeilo Offiofilo 2, 11711				
U	75-28-5	Flam. Gas 1; H220	> 2.50 - < 3.00	%-b.w.		
ł	200-857-2	Press. Gas	> 2.50 - < 3.00	/0-D.W.		
	601-004-00-0	1 1000. Gas				
	-					
9	Hydrocarbons C6-C	:7, isoalkanes, cyclics, <5% n-hexane				
J		Aquatic Chronic 2; H411	> 1.00 - < 2.50	%-b.w.		
	926-605-8	Asp. Tox. 1; H304	7.00 - < 2.50	/0-D.W.		
	-	Flam. Liq. 2; H225				
	_	STOT SE 3; H336				
10	cyclohexane	10101 0L 0, 11000				
10	110-82-7	Aquatic Acute 1; H400	> 1.00 - < 2.50	%-b.w.		
	203-806-2	Aquatic Acute 1, H400 Aquatic Chronic 1; H410	7 1.00 - < 2.50	/0-D.W.		
	601-017-00-1	Asp. Tox. 1; H304				
	001-017-00-1					
	-	Flam. Liq. 2; H225				
		Skin Irrit. 2; H315 STOT SE 3: H336				
11	n hovens	0101 0L 3, 11330				
11	n-hexane					



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110-54-3	Aquatic Chronic 2; H411	>	0.30 - <	1.00	%-b.w.
203-777-6	Asp. Tox. 1; H304				
601-037-00-0	Flam. Liq. 2; H225				
-	Repr. 2; H361f***				
	Skin Irrit. 2; H315				
	STOT RE 2*; H373**				
	STOT SE 3; H336				

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(*,**,***) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
11	-	STOT RE 2; H373: C >= 5%	-	-

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eve contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Rinse mouth thoroughly with water. Call a doctor. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder; Alcohol-resistant foam; Carbon dioxide; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke. Vapours are heavier than air.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not inhale vapours. Keep away sources of ignition.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Send in suitable containers for recovery or disposal.



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6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation

General protective and hygiene measures

Keep away from foodstuffs and beverages. Wash soiled clothing. Do not inhale vapours. Avoid contact with eyes and skin.

Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. Vapours can form an explosive mixture with air.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Storage temperature may not exceed 50°C (=122°F).

Recommended storage temperature

Value 15 - 35 °C

Storage stability

Value min. 2 year(s)

Requirements for storage rooms and vessels

Keep container tightly closed.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	butane	106-97-8		203-448-7	
	List of approved workplace exposure limits (WELs) / EH40				
	Butane				
	STEL	1810	mg/m³	750	ml/m³
	TWA	1450	mg/m³	600	ml/m³
2	propane	74-98-6		200-827-9	
	List of approved workplace exposure limits (WELs) / EH40				
	Propane				
3	propan-2-ol	67-63-0		200-661-7	
	List of approved workplace exposure limits (WELs) / EH40				
	Propan-2-ol				
	STEL	1250	mg/m³	500	ml/m³
	TWA	999	mg/m³	400	ml/m³
4	cyclohexane	110-82-7		203-806-2	
	List of approved workplace exposure limits (WELs) / EH40				
	Cyclohexane				
	STEL	1050	mg/m³	300	ml/m³
	TWA	350	mg/m³	100	ml/m³
	2006/15/EG				
	Cyclohexan				
	TWA	700	mg/m³	200	ml/m³
5	n-hexane	110-54-3		203-777-6	
	List of approved workplace exposure limits (WELs) / EH40				
	n-Hexane				
	TWA	72	mg/m³	20	ml/m³
	2006/15/EG		_		
	n-Hexane				
	TWA	72	mg/m³	20	ml/m³



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DNEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC n	10
	Route of exposure	Exposure time	Effect	Value	
1	Hydrocarbons, C9-C10,	n-alkanes, isoalkanes, cyclics	, <2% aromatics	-	
				927-241-2	
	dermal	Long term (chronic)	systemic	300	mg/kg/day
	inhalative	Long term (chronic)	systemic	1500	mg/m³
2	Hydrocarbons, C7, n-all	kanes, isoalkanes, cyclics		-	
				927-510-4	
	dermal	Long term (chronic)	systemic	300	mg/kg/day
	inhalative	Long term (chronic)	systemic	2085	mg/m³
3	propan-2-ol			67-63-0	
				200-661-7	
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	systemic	500	mg/m³
4	Hydrocarbons, C6, isoa	Ikanes, <5% n-hexane		-	
				931-254-9	
	dermal	Long term (chronic)	systemic	13964	mg/kg/day
	inhalative	Long term (chronic)	systemic	5306	mg/m³
5	Hydrocarbons, C6-C7, is	soalkanes, cyclics, <5% n-hex	ane	-	
				926-605-8	
	dermal	Long term (chronic)	systemic	773	mg/kg/day
	inhalative	Long term (chronic)	systemic	2035	mg/m³

DNEL value (consumer)

	DNEL value (consumer)				
No	Substance name			CAS / EC	no
	Route of exposure	Exposure time	Effect	Value	
1	Hydrocarbons, C9-C10,	n-alkanes, isoalkanes, cyclics	, <2% aromatics	-	
				927-241-2	
	oral	Long term (chronic)	systemic	300	mg/kg/day
	dermal	Long term (chronic)	systemic	300	mg/kg/day
	inhalative	Long term (chronic)	systemic	900	mg/m³
2	Hydrocarbons, C7, n-alk	anes, isoalkanes, cyclics		-	-
	-			927-510-4	
	oral	Long term (chronic)	systemic	149	mg/kg/day
	dermal	Long term (chronic)	systemic	149	mg/kg/day
	inhalative	Long term (chronic)	systemic	447	mg/m³
3	propan-2-ol			67-63-0	
				200-661-7	
	oral	Long term (chronic)	systemic	26	mg/kg/day
	dermal	Long term (chronic)	systemic	319	mg/kg/day
	inhalative	Long term (chronic)	systemic	89	mg/m³
4	Hydrocarbons, C6, isoal	kanes, <5% n-hexane		-	
				931-254-9	
	oral	Long term (chronic)	systemic	1301	mg/kg/day
	dermal	Long term (chronic)	systemic	1377	mg/kg/day
	inhalative	Long term (chronic)	systemic	1131	mg/m³
5	Hydrocarbons, C6-C7, is	soalkanes, cyclics, <5% n-hex	ane	-	
	<u> </u>	-		926-605-8	
	oral	Long term (chronic)	systemic	699	mg/kg/day
	dermal	Long term (chronic)	systemic	699	mg/kg/day
	inhalative	Long term (chronic)	systemic	603	mg/m³



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PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	propan-2-ol		67-63-0	
			200-661-7	
	water	fresh water	140.9	mg/l
	water	marine water	140.9	mg/l
	water	fresh water sediment	552	mg/l
	water	marine water sediment	552	mg/l
	water	Aqua intermittent	140.9	
	soil	-	28	mg/kg
	sewage treatment plant	-	2251	mg/l
	secondary poisoning	-	160	mg/kg
	with reference to: food			

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

Material thickness 0.4 mm
Breakthrough time > 480 min.

Environmental exposure controls

No data available.

Value

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour				
Aerosol				
colourless				
Odour				
sweetish				
Odour threshold				
No data available				
pH value				
No data available				
Boiling point / boiling range				
Value	-44	°C		
Melting point / melting range				
No data available				
Decomposition point / decomposition range				
No data available				
Flash point				
Not applicable				



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Auto-ignition temperature Remarks	Product is no	t selfigniting.			
Oxidising properties No data available	·				
Explosive properties					
In and after use danger of production of inflammable	compounds. Da	nger of bursting	when heating	over 50°C.	
Flammability (solid, gas) No data available					
Lower flammability or explosive limits Value		0.6	% vol		
Upper flammability or explosive limits					
Value		10.9	% vol		
Vapour pressure No data available					
Vapour density No data available					
Evaporation rate No data available					
Relative density No data available					
Density					
Value Reference temperature		0.64 20	g/cm³ °C		
Solubility in water	T				
Remarks	immiscible				
Solubility(ies) No data available					
Partition coefficient: n-octanol/water					
No Substance name 1 propan-2-ol		CAS no. 67-63-0		EC no. 200-661-7	
log Pow		07-03-0	0.05		
Reference temperature Source	ECHA		25	°C	
2 n-hexane	120.111	110-54-3		203-777-6	
log Pow Source	Supplier		3.9		
Viscosity No data available					
Solids content					
Value		3	%		

Other information

Other information	
Vapours are heavier than air.	

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

No data available.

10.2 **Chemical stability**

Stable under recommended storage and handling conditions (See section 7).



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10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Temperatures > 50°C.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acut	e oral toxicity				
No	Substance name		CAS no.		EC no.
1	Hydrocarbons, C9-C10, n-alkanes, isoalkanes aromatics	, cyclics, <2%	-		927-241-2
LD50)	>		2000	mg/kg bodyweight
Spec	cies	rat			
Sour	ce	Manufacturer			
2	propan-2-ol		67-63-0		200-661-7
LD50)			5045	mg/kg bodyweight
Spec	cies	rat			
Sour	ce	Manufacturer			
3	1-ethoxypropan-2-ol		1569-02-4		216-374-5
LD50				4900	mg/kg bodyweight
Spec		rat			
Sour	ce	Manufacturer			
4	Hydrocarbons, C6, isoalkanes, <5% n-hexane		-		931-254-9
LD50		>		5000	mg/kg bodyweight
Spec	cies	rat			
Meth	od	OECD 401			
Sour	ce	ECHA			
5	isobutane		75-28-5		200-857-2
LD50				12705	mg/kg bodyweight
Spec		rat			
Sour	ce	Manufacturer			

Acut	e dermal toxicity				
No	Substance name		CAS no.		EC no.
1	Hydrocarbons, C9-C10, n-alkanes, isoalkanes aromatics	, cyclics, <2%	-		927-241-2
LD50		>		2000	mg/kg bodyweight
Spec	ies	rabbit			
Sour	ce	Manufacturer			
2	propan-2-ol		67-63-0		200-661-7
LD50				12800	mg/kg bodyweight
Spec	ies	rabbit			
Sour	ce	Manufacturer			
3	1-ethoxypropan-2-ol		1569-02-4		216-374-5
LD50				9500	mg/kg bodyweight
Spec	ies	rabbit			
Sour	ce	Manufacturer			
4	Hydrocarbons, C6, isoalkanes, <5% n-hexane		-		931-254-9
LD50		>		3350	mg/kg bodyweight
Spec	ies	rabbit			
Meth	od	OECD 402			
Sour	ce	ECHA			



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Acut	e inhalational toxicity					
No	Substance name		CAS no.		EC no.	
1	butane		106-97-8		203-448-7	
LC50)			658	mg/l	
	tion of exposure			4	h	
	e of aggregation	Gas				
Spec		rat				
Sour		Manufacturer				
2	propane		74-98-6		200-827-9	
LC50		>		20	mg/l	
	tion of exposure			4	h	
	e of aggregation	Gas				
Spec		rat				
Sour		Manufacturer	27.00.0		200 201 7	
3	propan-2-ol		67-63-0		200-661-7	
LC50				30	mg/l	
	tion of exposure	Gas		4	h	
	e of aggregation					
Spec		rat Manufacturer				
4	1-ethoxypropan-2-ol	Manufacturer	1569-02-4		216-374-5	
LC50		>	1303-02-4	14200	mg/l	
	tion of exposure			4	h	
State	e of aggregation	Vapour		7	"	
Spec		rat				
Sour		Manufacturer				
5	Hydrocarbons, C6, isoalkanes, <5% n-hexar		-		931-254-9	
LC50				259	mg/l	
	tion of exposure			4	h	
	e of aggregation	Vapour		•		
Spec		rat				
Meth		OECD 403				
Sour	ce	ECHA				
6	Hydrocarbons, C6-C7, isoalkanes, cyclics, <	<5% n-hexane	-		926-605-8	
LC50		>		25.2	mg/l	
Dura	tion of exposure			4	h	
	e of aggregation	Vapour				
Otate						
Spec	cies	rat				

Skin	corrosion/irritation					
No	Substance name		CAS no.		EC no.	
1	propan-2-ol		67-63-0		200-661-7	
Spec	ies	rabbit				
Sour	ce	ECHA				
Evalu	uation	non-irritant				
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane		-		931-254-9	
Dura	tion of exposure			4	h	
Spec	ies	rabbit				
Meth	od	OECD 404				
Sour	ce	ECHA				
Evalu	uation	non-irritant				
Evalu	uation/classification	Based on avail	able data, the cla	ssification crite	ria are met.	
3	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5°	% n-hexane	-		926-605-8	
Spec	ies	rabbit				
Meth	od	OECD 404				
Sour	ce	ECHA				
Evalu	uation	irritant				



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Serio	Serious eye damage/irritation							
No	Substance name		CAS no.		EC no.			
1	propan-2-ol		67-63-0		200-661-7			
Spec	ties	rabbit						
Meth	od	OECD 405						
Sour	ce	ECHA						
Evalu	uation	irritant						
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane		-		931-254-9			
Dura	tion of exposure			72	h			
Spec	ries	rabbit						
Meth	od	OECD 405						
Sour	ce	ECHA						
Evalu	uation	non-irritant						

Resp	Respiratory or skin sensitisation						
No	Substance name	CAS no.	EC no.				
1	propan-2-ol	67-63-0	200-661-7				
Rout	e of exposure	Skin					
Spec	cies	guinea pig					
Meth	od	OECD 406					
Sour	ce	ECHA					
Evalu	uation	non-sensitizing					
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane	-	931-254-9				
Rout	e of exposure	Skin					
Spec	cies	mouse					
Meth	od	OECD 429					
Sour	ce	ECHA					
Evalu	uation	non-sensitizing					

Gern	n cell mutagenicity	
No	Substance name	CAS no. EC no.
1	propan-2-ol	67-63-0 200-661-7
Sour	ce	ECHA
Evalu	uation/classification	Based on available data, the classification criteria are not met.
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane	- 931-254-9
Type	of examination	gene mutation assay
Spec		Salmonella typhimurium
Meth	od	OECD 471
Sour		ECHA
Evalu	uation/classification	Based on available data, the classification criteria are not met.
Rout	e of exposure	inhalational
	of examination	Chromosome aberration test
Spec		rat
Meth		OECD 475
Sour		ECHA
Evalu	uation/classification	Based on available data, the classification criteria are not met.
3	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5°	
Rout	e of exposure	inhalational
, , ,	of examination	Chromosome aberration test
Spec		rat
Meth	od	OECD 475
Sour	ce	ECHA



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Reproduction toxicity				
No Substance name	CAS no	D.	EC no.	
1 Hydrocarbons, C6, isoalkanes, <5% n-hex	ane -		931-254-9	
Route of exposure	inhalational			
NOAEC		9000	ppm	
Duration of exposure		13	week/s	
Type of examination	2 generation study			
Species	rat			
Method	OECD 416			
Source	ECHA			
Evaluation/classification	Based on available data	a, the classification crit	teria are not met.	
2 Hydrocarbons, C6-C7, isoalkanes, cyclics	, <5% n-hexane -		926-605-8	
Route of exposure	inhalational			
NOAEC		9000	ppm	
Type of examination	2 generation study			
Species	rat			
Method	OECD 416			
Source	ECHA			

Carc	inogenicity				
No	Substance name	CAS	no.	EC no.	
1	Hydrocarbons, C6, isoalkanes, <5% n-hexane	•		931-254-9	
Rout	e of exposure	inhalational			
NOA	EC		9016	ppm	
Dura	tion of exposure		2	year(s)	
Spec	ies	mouse			
Meth	od	OECD 451			
Sour	ce	ECHA			
Evalu	uation/classification	Based on available d	ata, the classification crite	eria are not met.	
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5°	% n-hexane -		926-605-8	
Rout	e of exposure	inhalational			
NOA	EC		3000	ppm	
Spec	ies	rat			
Meth	od	OECD 451			
Sour	ce	ECHA			

STOT-single exposure No data available

STOT-repeated exposure						
No Substance name	CAS no.	E	EC no.			
1 Hydrocarbons, C6, isoalkanes, <5% n-hexane	-	9	31-254-9			
Route of exposure	inhalational					
NOAEC		2984	ppm			
Duration of exposure		13	week/s			
Species	mouse					
Target organ	liver, kidney					
Method	OECD 413					
Source	ECHA					
Evaluation/classification	Based on available data, the class	sification criteria	a are not met.			
Route of exposure	inhalational					
NOAEC		8992	ppm			
Duration of exposure		13	week/s			
Species	mouse					
Method	OECD 413					
Source	ECHA					
Evaluation/classification	Based on available data, the class	sification criteria	a are not met.			
2 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5°	% n-hexane -	9	926-605-8			
Route of exposure	inhalational					
NOAEC		14000	mg/m³			
Duration of exposure		8	h			
Species	rat					
Source	ECHA					

Aspiration hazard	
No data available	
110 data available	



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SECTION 12: Ecological information

12.1 Toxicity

Toxio	city to fish (acute)					
No	Substance name		CAS no.		EC no.	
1	Hydrocarbons, C9-C10, n-alkanes, isoalkanes aromatics	, cyclics, <2%	-		927-241-2	
LC50		>		100	mg/l	
Dura	tion of exposure			96	h	
Spec	ies	fish				
Sour	ce	Manufacturer				
2	propan-2-ol		67-63-0		200-661-7	
LC50				9640	mg/l	
Dura	tion of exposure			96	h	
Spec	ies	Pimephales pro	melas			
Meth	od	OECD 203				
Sour	ce	ECHA				
3	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5°	% n-hexane	-		926-605-8	
LL50				11.4	mg/l	
Dura	tion of exposure			96	h	
Spec	ies	Oncorhynchus r	nykiss			
Meth	od	OECD 203				
Sour	ce	ECHA				

Toxicity to fish (chronic)

No data available

Toxic	Toxicity to Daphnia (acute)					
No	Substance name	CAS no.	EC no.			
1	Hydrocarbons, C9-C10, n-alkanes, isoalkanes	cyclics, <2% -	927-241-2			
	aromatics					
EL50		> 22 - 46	mg/l			
Dura	tion of exposure	48	h			
Species		Daphnia magna				
Meth	od	OECD 202				
Sour	ce	ECHA				
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5°	% n-hexane -	926-605-8			
EL50		3	mg/l			
Dura	tion of exposure	48	h			
Species		Daphnia magna				
Meth	od	OECD 202				
Sour	ce	ECHA				

Toxicity to Daphnia (chronic)

No data available

Toxi	Toxicity to algae (acute)						
No	Substance name	CAS no.		EC no.			
1	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane - 926-605-8			926-605-8			
EL50			1030	mg/l			
Dura	tion of exposure		72	h			
Spec	cies	Raphidocelis subcapitata					
Meth	od	OECD 201					
Sour	ce	ECHA					



day(s)

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Toxicity to algae (chronic)

12.2 Persistence and degradability

No data available

Bacteria toxicity

No data available

Biodegradability					
Substance name		CAS no.		EC no.	
	, cyclics, <2%	-		927-241-2	
aiomatics	aerobic biodegi	adation			
			89	%	
tion			28	day(s)	
od	OECD 301 F			· ,	
ce	ECHA				
ation	readily biodegra	adable			
propan-2-ol		67-63-0		200-661-7	
	BOD/COD				
)			53	%	
tion			5	day(s)	
ce	ECHA			• • • • • • • • • • • • • • • • • • • •	
ation	readily biodegra	adable			
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5	% n-hexane	-		926-605-8	
	aerobic biodegi	adation			
	Substance name Hydrocarbons, C9-C10, n-alkanes, isoalkanes aromatics eition od ce lation propan-2-ol	Substance name Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics aerobic biodegration OECD 301 F ECHA readily biodegrate propan-2-ol BOD/COD B	Substance name Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% - aromatics aerobic biodegradation OECD 301 F ECHA readily biodegradable propan-2-ol BOD/COD BOD/COD	Substance name Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% - aromatics aerobic biodegradation 89 28 od OECD 301 F ECHA readily biodegradable propan-2-ol BOD/COD BOD/COD BOD/COD 53 50 60 60 60 60 60 60 60 60 60 60 60 60 60	Substance name CAS no. EC no. Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% - aromatics

Bioaccumulative potential

	bioaccairiaiative peteritiai				
Partition coefficient: n-octanol/water					
No	Substance name	CAS	no.	EC no.	
1	propan-2-ol	67-63	3-0	200-661-7	
log Pow			0.05		
Refe	rence temperature		25	°C	
Sour	ce	ECHA			
2	n-hexane	110-	54-3	203-777-6	
log F	Pow		3.9		
Sour	ce	Supplier			

OECD 301 F

readily degradable

ECHA

98

28

12.4 Mobility in soil

Type Value

Duration

Method

Source

Evaluation

No data available.

Results of PBT and vPvB assessment 12.5

No data available.

Other adverse effects 12.6

No data available.

Other information

Other information Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

Waste treatment methods

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Smaller quantities can be disposed with household garbage.

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.



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SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class 2
Classification code 5F
UN number UN1950
Technical name AEROSOLS
Tunnel restriction code D

Label 2.1

14.2 Transport IMDG

 Class
 2

 UN number
 UN1950

 Proper shipping name
 AEROSOLS

 EmS
 F-D+S-U

 Label
 2.1

14.3 Transport ICAO-TI / IATA

Class 2.1 UN number UN1950

Proper shipping name Aerosols, flammable

Label 2

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES				
The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.				
The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.				
No	Substance name	CAS no.	EC no.	No
1	cvclohexane	110-82-7	203-806	5-2 57

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:

P3a

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds due to the use of organic solvents (VOC			
Directive)			
VOC content	97.03 %		

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.



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SECTION 16: Other information

Further information

Not to be used by children.

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

EUH066 Repeated exposure may cause skin dryness or cracking.

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.
H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

Department issuing safety data sheet

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This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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