

SAFETY DATA SHEET

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



ROOF7

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

1.1 Product identifier:

Product name : ROOF7
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

Sealing compound

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*
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@tec7.be
*TEC7 is een geregistreerd merk van Novatech International
Industrielaan 5B

Manufacturer of the product

Novatech International N.V.
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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 statements
Flam. Liq.	category 3	H226: Flammable liquid and vapour.
STOT RE	category 1	H372: Causes damage to the central nervous system through prolonged or repeated exposure if inhaled.
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

R10 - 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 Regulation EC No 1272/2008 (CLP)

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Contains: hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%).

Signal word Danger

H-statements

H226 Flammable liquid and vapour.
 H372 Causes damage to organs through prolonged or repeated exposure if inhaled.
 H412 Harmful to aquatic life with long lasting effects.

P-statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P243 Take precautionary measures against static discharge.
 P280 Wear protective gloves and eye protection/face protection.
 P260 Do not breathe vapours/mist.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P314 Get medical advice/attention if you feel unwell.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards:

CLP

May be ignited by sparks

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-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 01-2119458049-33		10% <C<25%	Xn; R48/20 - 65 R10 R66 R67 N; R51-53	Flam. Liq. 3; H226 STOT RE 1; H372 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent
hydrocarbons, C9, aromatics 01-2119455851-35		5% <C<10%	Xn; R65 Xi; R37 R10 R66 R67 N; R51-53	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent
quaternary ammonium compounds, dicocooalkyldimethyl, chlorides	61789-77-3 263-087-6	C<1 %	Xn; R22 C; R34 N; R50	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400	(1)	Constituent

(1) For R-phrases and H-statements in full: see heading 16

(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:

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

After inhalation:

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

After skin contact:

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

After eye contact:

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

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After ingestion:

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

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

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Narcosis.

After skin contact:

ON CONTINUOUS/REPEATED 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:

BC powder. Carbon dioxide. Sand/earth.

5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium.

5.2 Special hazards arising from the substance or mixture:

Upon combustion CO and CO₂ are formed (carbon monoxide - carbon dioxide).

5.3 Advice for firefighters:

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Face-shield. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames or sparks. Stop engines and no smoking. 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. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain leaking substance. Dam up the solid spill. Prevent soil and water pollution. Prevent spreading in sewers.

6.3 Methods and material for containment and cleaning up:

Solid spill: cover with sand, earth, vermiculite. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Contaminated surfaces: do not clean (treat) with 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:

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Observe normal hygiene standards. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

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7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Store in a cool area. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

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

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.

Petroleum Distillate (Naphthas)	NIOSH	1550
Petroleum Distillates fractions	OSHA	48

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

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

8.1.4 DNEL/PNEC values

DNEL - Workers

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	330 mg/m ³	
	Long-term systemic effects dermal	44 mg/kg bw/day	

hydrocarbons, C9, aromatics

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	150 mg/m ³	
	Long-term systemic effects dermal	25 mg/kg bw/day	

DNEL - General population

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	71 mg/m ³	
	Long-term systemic effects dermal	26 mg/kg bw/day	
	Long-term systemic effects oral	26 mg/kg bw/day	

hydrocarbons, C9, aromatics

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	32 mg/m ³	
	Long-term systemic effects dermal	11 mg/kg bw/day	
	Long-term systemic effects oral	11 mg/kg bw/day	

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

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

8.2.2 Individual protection measures, such as personal protective equipment

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

a) Respiratory protection:

Insufficient ventilation: wear respiratory protection.

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b) Hand protection:

Gloves.

Materials	Breakthrough time	Thickness
nitrile rubber	>480 minutes	>=0.12 mm

- materials (good resistance)

Nitrile rubber.

c) Eye protection:

Safety glasses.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Paste
Odour	Characteristic odour
Odour threshold	No data available
Colour	Black
Particle size	No data available
Explosion limits	0.6 - 7.0 vol %
Flammability	Flammable liquid and vapour.
Log Kow	Not applicable (mixture)
Dynamic viscosity	108000mPa.s ; 20°C
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	135°C
Flash point	36°C
Evaporation rate	No data available
Relative vapour density	> 1.0
Vapour pressure	3.7hPa ; 20°C 15hPa ; 50°C
Solubility	water ; insoluble
Relative density	1.1 ; 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	Not applicable

9.2 Other information:

Absolute density	1130kg/m ³ ; 20°C
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SECTION 10: Stability and reactivity

10.1 Reactivity:

May be ignited by sparks.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system.

10.5 Incompatible materials:

No data available.

10.6 Hazardous decomposition products:

Upon combustion CO and CO₂ are formed (carbon monoxide - carbon dioxide).

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SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

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No (test) data on the mixture available

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	> 1500mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Other	> 3400mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 13.1mg/l air	4 h	Rat (male/female)	Experimental value	

hydrocarbons, C9, aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		> 6984mg/kg bw		Rat (male)	Experimental value	
Oral	LD50		3492mg/kg bw		Rat (female)	Experimental value	
Oral	LD50		3952mg/kg bw		Rat	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 3160mg/kg bw	24 h	Rabbit (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 6193mg/m ³	4 h	Rat (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 40.2mg/l air	4 h	Rat (male/female)	Experimental value	

quaternary ammonium compounds, dicoco alkyldimethyl, chlorides

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral			category 4			Literature study	

Judgement is based on the relevant ingredients

Conclusion

Low acute toxicity by the oral route

Low acute toxicity by the dermal route

Low acute toxicity by the inhalation route

Corrosion/irritation

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No (test) data on the mixture available

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	Human observation	4-6 h	24; 48 hours	Human	Experimental value	

hydrocarbons, C9, aromatics

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Slightly irritating	OECD 404	4 h	1; 24; 48; 72 hrs; 7; 14; 21 days	Rabbit	Literature study	
Inhalation	Irritating					Literature study	

quaternary ammonium compounds, dicoco alkyldimethyl, chlorides

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Corrosive					Literature study	
Skin	Corrosive					Literature study	

Judgement is based on the relevant ingredients

Conclusion

Not classified as irritating to the skin

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Not classified as irritating to the eyes

Respiratory or skin sensitisation

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No (test)data on the mixture available

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (male/female)	Experimental value	
Skin	Not sensitizing	Human observation	3 weeks (5 days/week)	24; 48 hours	Human (male/female)	Experimental value	

hydrocarbons, C9, aromatics

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing				Guinea pig	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

Not classified as sensitizing for skin

Specific target organ toxicity

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No (test)data on the mixture available

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 408	1056mg/kg bw/day		No effect	30 day(s)	Rat (female)	Experimental value
Dermal	NOAEL systemic effects	Equivalent to OECD 411	> 495mg/kg bw/day		No adverse systemic effects	13 weeks (5 days/week)	Rat (female)	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	690ppm		No effect	13 weeks (6h/day, 5 days/week)	Rat (female)	Experimental value
Inhalation (vapours)	LOAEC	Equivalent to OECD 413	1293ppm	General	Weight reduction	13 weeks (6h/day, 5 days/week)	Rat (female)	Experimental value
Inhalation	NOAEC	Other	570mg/m ³ air	Central nervous system	No effect	3 days (8h/day)	Human (male)	Read-across

hydrocarbons, C9, aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Dermal	NOEL	Equivalent to OECD 410	> 2000mg/kg bw/day		Systemic effects	4 weeks (3 times/week)	Rabbit (male/female)	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 412	9840mg/m ³		No effect	4 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	1402mg/m ³		No effect	107-113 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEC	US EPA	10000mg/m ³		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value

Classification is based on the relevant ingredients

Conclusion

Causes damage to the central nervous system through prolonged or repeated exposure if inhaled.

Low sub-chronic toxicity by the oral route

Low sub-chronic toxicity by the dermal route

Mutagenicity (in vitro)

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No (test)data on the mixture available

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hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Human lymphocytes	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 479	Chinese hamster ovary (CHO)	No effect	Experimental value

hydrocarbons, C9, aromatics

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

Mutagenicity (in vivo)

ROOF7

No (test)data on the mixture available

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male/female)		Read-across
Negative	Equivalent to OECD 475		Mouse (male/female)		Read-across

hydrocarbons, C9, aromatics

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	EPA OTS 798.5395	4 weeks (6h/day, 5 days/week)	Rat (male/female)		Experimental value
Negative	Equivalent to OECD 475	5 day(s)	Rat (male)		Experimental value

Carcinogenicity

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No (test)data on the mixture available

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

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

hydrocarbons, C9, aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Dermal	NOAEL	Equivalent to OECD 451	0.05ml	102 weeks (3 times/week)	Mouse (male)	Experimental value		No effect

Reproductive toxicity

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No (test)data on the mixture available

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	≥ 5220mg/m ³ air	10 days (6h/day)	Rat	No effect	Foetus	Experimental value
Maternal toxicity	NOAEL	Equivalent to OECD 414	≥ 5220mg/m ³ air		Rat	No effect		Experimental value
Effects on fertility	NOAEL	Equivalent to OECD 416	≥ 300mg/kg bw/day	16 weeks (daily)	Rat (male/female)	No effect		Experimental value
	NOAEL	Equivalent to OECD 421	≥ 1000mg/kg bw/day	46 day(s)	Rat (male/female)	No effect		Read-across

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hydrocarbons, C9, aromatics

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL (P/F1)	Equivalent to OECD 414	23900mg/m ³		Rat	No effect		Experimental value
Effects on fertility	NOAEL (P/F1)	Equivalent to OECD 416	> 20000mg/m ³		Rat (male/female)	No effect		Experimental value
	NOAEL (P/F1)	Equivalent to OECD 421	24700mg/m ³	8-9 weeks (6h/day, 7 days/week)	Rat (male/female)	No effect		Experimental value

Judgement is based on the relevant ingredients

Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

ROOF7

No (test)data on the mixture available

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

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

hydrocarbons, C9, aromatics

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

In the light of practical experience, the classification for this mixture is more stringent than the one based on the calculation set out

Conclusion

Repeated exposure may cause skin dryness or cracking.

Chronic effects from short and long-term exposure

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No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

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No (test)data on the mixture available

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hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	10mg/l WAF - 30mg/l WAF	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity invertebrates	EL50	OECD 202	10mg/l - 22mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	NOEL	OECD 201	0.76mg/l WAF	96 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
	NOEL	OECD 201	0.22mg/l WAF	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Biomass
	NOEL	OECD 201	1mg/l WAF	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
	EL50	OECD 201	4.1mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish	NOELR		0.13mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR; Growth
Long-term toxicity aquatic invertebrates	EC50	OECD 211	0.328mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Read-across; Reproduction
Toxicity aquatic micro-organisms	EL50	Other	43.98mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR
	EC50		> 100mg/l		Bacteria			Literature study

hydrocarbons, C9, aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	9.2mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity invertebrates	EL50	OECD 202	3.2mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	2.9mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
	EL50	OECD 201	2.6mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Biomass
Long-term toxicity fish	NOELR		1.228mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR
Long-term toxicity aquatic invertebrates	NOELR		2.144mg/l	21 day(s)	Daphnia magna		Fresh water	QSAR
Toxicity aquatic micro-organisms	EC50	OECD 209	> 99mg/l	30 minutes	Activated sludge	Static system		Experimental value
	NOEC	OECD 209	> 99mg/l	30 minutes	Activated sludge	Static system		Experimental value

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity birds	LD50	EPA OPP 71-1	2250mg/kg bw	14 day(s)	Colinus virginianus	Experimental value
	NOEL	EPA OPP 71-1	292mg/kg bw	14 day(s)	Colinus virginianus	Experimental value

Classification is based on the relevant ingredients

Conclusion

- Harmful to fishes
- Harmful to aquatic organisms
- May cause long-term adverse effects in the aquatic environment

12.2 Persistence and degradability:

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	74.7%; GLP	28 day(s)	Read-across

hydrocarbons, C9, aromatics

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	78%	28 day(s)	Experimental value

Conclusion

Contains readily biodegradable component(s)

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12.3 Bioaccumulative potential:

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Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Log Kow

Method	Remark	Value	Temperature	Value determination
		3.7 - 6.7		

hydrocarbons, C9, aromatics

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion

Contains bioaccumulative component(s)

12.4 Mobility in soil:

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	96%		1.3%	0.077%	1.4%	Calculated value

hydrocarbons, C9, aromatics

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	92.9%	0%	1.8%	1.9%	3.5%	Calculated value

Conclusion

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

12.5 Results of PBT and vPvB assessment:

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

12.6 Other adverse effects:

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Global warming potential (GWP)

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

Ozone-depleting potential (ODP)

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

Ground water

Ground water pollutant

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water pollutant

hydrocarbons, C9, aromatics

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water 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:

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13.1.1 Provisions relating to waste

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

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other dangerous substances). Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Recycle/reuse. Incinerate under surveillance with energy recovery. Should not be landfilled with household waste. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

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:

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	
Specific mention	Viscous liquid with flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$, which meets the conditions indicated in 2.2.3.1.5 of ADR, is not subject

Rail (RID)

14.1 UN number:

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	
Specific mention	Viscous liquid with flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$, which meets the conditions indicated in 2.2.3.1.5 of RID, is not subject

Inland waterways (ADN)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
Classification code	

14.4 Packing group:

Packing group	
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Labels	
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
Limited quantities	
Specific mention	Viscous liquid with flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$, which meets the conditions indicated in 2.2.3.1.5 of ADN, is not subject

Sea (IMDG/IMSBC)

14.1 UN number:	
UN number	1139
14.2 UN proper shipping name:	
Proper shipping name	coating solution
14.3 Transport hazard class(es):	
Class	3
14.4 Packing group:	
Packing group	III
Labels	3
14.5 Environmental hazards:	
Marine pollutant	-
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	955
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Viscous liquid with flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$, which meets the conditions indicated in 2.3.2.5 of IMDG, is not subject to IMDG Code chapters 4.1, 5.2 and 6.1
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, based on available data

Air (ICAO-TI/IATA-DGR)

14.1 UN number:	
UN number	1139
14.2 UN proper shipping name:	
Proper shipping name	Coating solution
14.3 Transport hazard class(es):	
Class	3
14.4 Packing group:	
Packing group	III
Labels	3
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	A3
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	10 L

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
24.31%	

VOC content Directive 2004/42/EC

Maximum value	EC limit value	Category	Subcategory	Notation
274.7g/l	840 g/l	IIB	e: Special finishes	2004/42/IIB(e)(840)274.7

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.

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Reference legislation

See column 1: 3.

See column 1: 40.

National legislation The Netherlands

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Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	8

hydrocarbons, C9, aromatics

SZW - List of carcinogenic substances	Listed in SZW-list of carcinogenic substances
SZW - List of mutagenic substances	Listed in SZW-list of mutagenic substances

National legislation Germany

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WGK	2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

TA-Luft	5.2.5; I
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National legislation France

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No data available

National legislation Belgium

ROOF7

No data available

Other relevant data

ROOF7

No data available

15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

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

Contains: hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%).

R-phrases

- 10 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)
- (46) (If swallowed, seek medical advice immediately and show this container or label)
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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

- R10 Flammable
- R22 Harmful if swallowed
- R34 Causes burns
- R37 Irritating to respiratory system
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
- R50 Very toxic to aquatic organisms
- R51 Toxic to aquatic organisms
- R52 Harmful to aquatic organisms
- R53 May cause long-term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed
- R66 Repeated exposure may cause skin dryness or cracking
- R67 Vapours may cause drowsiness and dizziness

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

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.

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H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H372 Causes damage to the central nervous system through prolonged or repeated exposure if inhaled.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
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 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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