

Trade name: Therminol 68**Product no.:** 5008140**Current version :** 2.2.0, issued: 21.10.2021**Replaced version:** 2.1.0, issued: 01.12.2020**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Therminol 68****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

heat transfer fluids

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Krahn Chemie Deutschland GmbH

Grimm 10

20457 Hamburg

Deutschland

Telephone no. +49 40 320 92-0

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Information provided by / telephone

+49 40 320 92-0

Advice on Safety Data Sheet

msds@krahn.eu

1.4 Emergency telephone number

For medical advice (in German and English):

+49 551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:

+44 (0)1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Eye Irrit. 2; H319

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 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**

GHS07



GHS09

Signal word

Warning

Hazard statement(s)

H319

Causes serious eye irritation.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P264

Wash skin thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear eye protection/face protection.

P337+P313

If eye irritation persists: Get medical advice/attention.

P391

Collect spillage.

P501

Dispose of contents/container to an approved waste facility.

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PBT assessment

One or more components of this product are classified as PBT.

vPvB assessment

One or more components of this product are classified as vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	Terphenyl, hydrogenated		
	61788-32-7 262-967-7 - 01-2119488183-33	Aquatic Chronic 2; H411	>= 70.00 - < 85.00 wt%
2	Diphenyl ether		
	101-84-8 202-981-2 - 01-2119472545-33	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 10.00 - < 25.00 wt%
3	biphenyl		
	92-52-4 202-163-5 601-042-00-8 01-2119480408-33	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Irrit. 2; H319 Skin Irrit. 2; H315 STOT SE 3; H335	>= 5.00 - < 10.00 wt%
4	terphenyl		
	26140-60-3 247-477-3 - -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 5.00 wt%

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
4	-	-	M = 10	M = 10

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. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Ensure supply of fresh air. Remove affected person from the immediate area. Irregular breathing/no breathing: artificial respiration. In case of breathing difficulties give oxygen.

After skin contact

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

After eye 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 the mouth thoroughly with water. 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

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Carbon dioxide; Dry chemical extinguisher; Water mist; Foam

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixtureIn the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Run-off water from fire fighting must not be discharged into drains or enter surface water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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. Do not inhale vapours. High risk of slipping due to leakage/spillage of product.

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

Prevent spread over a wide area. Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Observe information on personal protection equipment (see section 8).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Avoid contact with eyes and skin. Provide eye wash fountain in work area. Do not inhale vapours. Remove soiled or soaked clothing immediately.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

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.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products

Do not store together with: oxidizing agents

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	Terphenyl, hydrogenated	61788-32-7	262-967-7
	2017/164/EU		

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	Terphenyl, hydrogenated			
	WEL short-term (15 min reference period)	48	mg/m ³	5 ppm
	WEL long-term (8-hr TWA reference period)	19	mg/m ³	2 ppm
	List of approved workplace exposure limits (WELs) / EH40			
	Terphenyl, hydrogenated			
	WEL short-term (15 min reference period)	48	mg/m ³	5 ppm
	WEL long-term (8-hr TWA reference period)	19	mg/m ³	2 ppm
2	Diphenyl ether	101-84-8		202-981-2
	2017/164/EU			
	Diphenyl ether			
	WEL short-term (15 min reference period)	14	mg/m ³	2 ppm
	WEL long-term (8-hr TWA reference period)	7	mg/m ³	1 ppm
	List of approved workplace exposure limits (WELs) / EH40			
	Diphenyl ether			
	WEL short-term (15 min reference period)	14	mg/m ³	2 ppm
	WEL long-term (8-hr TWA reference period)	7	mg/m ³	1 ppm
3	terphenyl	26140-60-3		247-477-3
	List of approved workplace exposure limits (WELs) / EH40			
	Terphenyls, all isomers			
	WEL short-term (15 min reference period)	4.8	mg/m ³	0.5 ppm

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Terphenyl, hydrogenated			61788-32-7 262-967-7	
	dermal	Long term (chronic)	systemic	46.3	mg/kg/day
	inhalative	Long term (chronic)	systemic	8.38	mg/m ³
2	Diphenyl ether			101-84-8 202-981-2	
	dermal	Long term (chronic)	systemic	25.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	59.00	mg/m ³
	inhalative	Long term (chronic)	local	7.00	mg/m ³
	inhalative	Short term (acute)	local	14.00	mg/m ³
3	biphenyl			92-52-4 202-163-5	
	dermal	Long term (chronic)	systemic	63.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	11.17	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Terphenyl, hydrogenated			61788-32-7 262-967-7	
	oral	Long term (chronic)	systemic	0.3	mg/kg/day
	dermal	Long term (chronic)	systemic	27.8	mg/kg/day
	dermal	Long term (chronic)	local	0.123	mg/cm ²
	inhalative	Long term (chronic)	systemic	2.5	mg/m ³
	inhalative	Long term (chronic)	local	25	mg/m ³
2	biphenyl			92-52-4 202-163-5	
	oral	Long term (chronic)	systemic	1.90	mg/kg/day
	dermal	Long term (chronic)	systemic	38.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	3.30	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	Terphenyl, hydrogenated		61788-32-7 262-967-7	
	water	fresh water	2	µg/L
	water	marine water	0.2	µg/L
	water	Aqua intermittent	13.4	µg/L
	water	fresh water sediment	63.2	mg/kg
	with reference to: dry weight			
	water	marine water sediment	6.32	mg/kg
	with reference to: dry weight			
	soil	-	12.60	mg/kg

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	with reference to: dry weight			
	sewage treatment plant	-	10.30	mg/L
	secondary poisoning	-	2.22	mg/kg
	with reference to: food			
2	Diphenyl ether		101-84-8 202-981-2	
	water	fresh water sediment	0.093	mg/kg dry weight
	water	marine water sediment	0.009	mg/kg dry weight
	soil	-	0.018	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	10.00	mg/L
3	biphenyl		92-52-4 202-163-5	
	water	fresh water	0.017	mg/L
	water	marine water	0.002	mg/L
	water	fresh water sediment	2.69	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0.269	mg/kg
	with reference to: dry weight			
	soil	-	0.528	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	10.00	mg/L
	secondary poisoning	-	16.70	mg/kg
	with reference to: food			

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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 and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (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. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves. Heat-resistant gloves when using hot material (EN 407).

Appropriate Material In case of longer-term contact:
Breakthrough time 1 - 4 h

Appropriate Material butyl rubber
Inappropriate material chloroprene
Appropriate Material nitrile rubber
Appropriate Material Natural rubber, NR
Appropriate Material Fluorocarbon rubber (Viton)

Other

Chemical-resistant work clothes. Make sure when selecting personal protective equipment (PPE), that it is suitable for the activity, workplace conditions in which it will be used according to the applying European CEN standards and upon consultation with the PPE supplier.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation
liquid
Form/Colour
liquid
light yellow
Odour
weak

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pH value			
No data available			
Boiling point / boiling range			
Value	308	°C	
Reference pressure	1013	hPa	
Melting point/freezing point			
Value	-33	°C	
Decomposition temperature			
No data available			
Flash point			
Value	155	°C	
Method	Cleveland open cup		
Ignition temperature			
No data available			
Auto-ignition temperature			
Value	400	°C	
Flammability			
Not applicable			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
Value	2.2	hPa	
Reference temperature	100	°C	
Value	2126.7	hPa	
Reference temperature	350	°C	
Relative vapour density			
No data available			
Relative density			
Value	1.027		
Reference temperature	20	°C	
Density			
Value	1.03	g/cm³	
Reference temperature	15	°C	
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
log Pow	>	6.5	
Method	OECD 117		
Source	ECHA		
2	terphenyl	26140-60-3	247-477-3
log Pow		5.09	
Viscosity			
Value	13.74	mm²/s	
Reference temperature	40	°C	
Type	kinematic		
Particle characteristics			
No data available			

9.2 Other information

Other information			
No data available.			

SECTION 10: Stability and reactivity**10.1 Reactivity**

Dangerous reactions are not expected if the product is handled according to its intended use.

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

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity				
No	Substance name	CAS no.	EC no.	
1	Terphenyl, hydrogenated	61788-32-7	262-967-7	
LD50		>	10000	mg/kg bodyweight
Species		rat		
Method		OECD 401		
Source		ECHA		
2	Diphenyl ether	101-84-8	202-981-2	
LD50			2830	mg/kg bodyweight
Species		rat		
Source		ECHA		
3	terphenyl	26140-60-3	247-477-3	
LD50			2604	mg/kg bodyweight
Species		rat		
Method		OECD 401		
Source		ECHA		
Acute dermal toxicity				
No	Substance name	CAS no.	EC no.	
1	Terphenyl, hydrogenated	61788-32-7	262-967-7	
LD50		>	2000	mg/kg bodyweight
Species		rabbit		
Method		OECD 402		
Source		ECHA		
2	Diphenyl ether	101-84-8	202-981-2	
LD50		>	7940	mg/kg bodyweight
Species		rabbit		
Source		ECHA		
3	terphenyl	26140-60-3	247-477-3	
LD50		>	5000	mg/kg bodyweight
Species		rabbit		
Method		OECD 402		
Source		ECHA		
Acute inhalational toxicity				
No	Substance name	CAS no.	EC no.	
1	Terphenyl, hydrogenated	61788-32-7	262-967-7	
LC50		>	4.7	mg/l
Duration of exposure			4	h
State of aggregation		Dust/mist		
Species		rat		
Method		OECD 403		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
2	terphenyl	26140-60-3	247-477-3	
LC50		>	3.8	mg/l
Duration of exposure			4	h
State of aggregation		Dust/mist		
Species		rat		
Method		OECD 403		
Source		ECHA		
Skin corrosion/irritation				

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No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
Duration of exposure		24	h
Species		rat	
Source		ECHA	
Evaluation		non-irritant	
2	Diphenyl ether	101-84-8	202-981-2
Species		rabbit	
Source		ECHA	
Evaluation		non-irritant	
3	terphenyl	26140-60-3	247-477-3
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
Species		rabbit	
Source		ECHA	
Evaluation		non-irritant	
2	Diphenyl ether	101-84-8	202-981-2
Species		rabbit	
Source		ECHA	
Evaluation		Irritating to eyes	
3	terphenyl	26140-60-3	247-477-3
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	

Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
Route of exposure		Skin	
Species		Human	
Source		ECHA	
Evaluation		non-sensitizing	
2	Diphenyl ether	101-84-8	202-981-2
Route of exposure		Skin	
Method		maximization test	
Source		ECHA	
Evaluation		non-sensitizing	
3	biphenyl	92-52-4	202-163-5
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	

Germ cell mutagenicity

No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	Diphenyl ether	101-84-8	202-981-2
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	terphenyl	26140-60-3	247-477-3
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity

No data available

Carcinogenicity

No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	biphenyl	92-52-4	202-163-5

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Route of exposure	oral		
Species	rat		
Method	OECD 453		
Evaluation/classification	Based on available data, the classification criteria are not met.		
STOT - single exposure			
No data available			
STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Diphenyl ether	101-84-8	202-981-2
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Aspiration hazard			
No data available			

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

No data available.

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
LC50	>	1000	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
2	Diphenyl ether	101-84-8	202-981-2
LC50		4.2	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Source	ECHA		
3	terphenyl	26140-60-3	247-477-3
LC50		27	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Source	ECHA		
Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	biphenyl	92-52-4	202-163-5
NOEC		0.229	mg/l
Duration of exposure		96	day(s)
Species	Oncorhynchus mykiss		
2	terphenyl	26140-60-3	247-477-3
NOEC		0.037	mg/l
Duration of exposure		30	day(s)
Species	Pimephales promelas		
Method	OECD 210		
Source	ECHA		
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
EC50	>	1	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
2	Diphenyl ether	101-84-8	202-981-2
EC50		1.7	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
3	terphenyl	26140-60-3	247-477-3

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EC50	0.022	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Source	ECHA	

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
NOELR	1	mg/l	
Duration of exposure	21	day(s)	
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
2	biphenyl	92-52-4	202-163-5
NOEC	0.17	mg/l	
Duration of exposure	21	day(s)	
Species	Daphnia magna		
3	terphenyl	26140-60-3	247-477-3
NOEC	0.0048	mg/l	
Duration of exposure	21	day(s)	
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
EC50	56	mg/l	
Duration of exposure	96	h	
Species	Pseudokirchneriella subcapitata		
2	Diphenyl ether	101-84-8	202-981-2
EC50	0.455	mg/l	
Duration of exposure	72	h	
Species	Pseudokirchneriella subcapitata		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No data available			

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Diphenyl ether	101-84-8	202-981-2
Type	aerobic biodegradation		
Source	ECHA		
Evaluation	readily biodegradable		
2	terphenyl	26140-60-3	247-477-3
Evaluation	not readily biodegradable		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
BCF	700	-	5200
2	Diphenyl ether	101-84-8	202-981-2
BCF	196		
Species	Oncorhynchus mykiss		
Source	ECHA		
3	biphenyl	92-52-4	202-163-5
BCF	1900		
Species	Oncorhynchus mykiss		
Source	ECHA		
4	terphenyl	26140-60-3	247-477-3
BCF	600		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Terphenyl, hydrogenated	61788-32-7	262-967-7
log Pow	>	6.5	

Trade name: Therminol 68**Product no.:** 5008140**Current version :** 2.2.0, issued: 21.10.2021**Replaced version:** 2.1.0, issued: 01.12.2020**Region:** GB

Method	OECD 117
Source	ECHA
2 terphenyl	26140-60-3 247-477-3
log Pow	5.09

12.4 Mobility in soil

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	biphenyl	92-52-4	202-163-5
log Koc		3.19	
Method	OECD 106		

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	One or more components of this product are classified as PBT.
vPvB assessment	One or more components of this product are classified as vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

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

Packaging

Residues 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.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Diphenyl ether biphenyl
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Diphenyl ether biphenyl
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	Diphenyl ether

Trade name: Therminol 68**Product no.:** 5008140**Current version :** 2.2.0, issued: 21.10.2021**Replaced version:** 2.1.0, issued: 01.12.2020**Region:** GB

Label
Environmentally hazardous
substance mark

biphenyl
9
Symbol "fish and tree"

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 Maritime transport in bulk according to IMO instruments

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		
The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation ((EC) 1907/2006) that are placed on the list of candidates considered for inclusion in annex XIV (substances subject to Authorisation).		
No	Substance name	CAS no. EC no.
1	Terphenyl, hydrogenated	61788-32-7 262-967-7
Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES		
The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.		No 3
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:		E1
Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)		
Comments	not applicable	

National regulations**National chemical inventories**

USA (TSCA)	components listed respectively exempted from listing
DSL/NDL (Canada)	components listed (DSL)
ENCS (Japan)	ENCS/ISHL listed
ECL (Korea)	components listed respectively exempted from listing
AICS (Australia)	components listed respectively exempted from listing
IECSC / NEPA (China)	components listed respectively exempted from listing
PICCS (Philippines)	components listed respectively exempted from listing
NZIoC (New Zealand)	components listed
CSNN (Taiwan)	components listed

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for the following substance/s in this mixture:

CAS no. 101-84-8 / 92-52-4 / 61788-32-7
EC no. 202-981-2 / 202-163-5 / 262-967-7

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.
Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.
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 section.

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

H315	Causes skin irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Trade name: Therminol 68

Product no.: 5008140

Current version : 2.2.0, issued: 21.10.2021

Replaced version: 2.1.0, issued: 01.12.2020

Region: GB

H412

Harmful to aquatic life with long lasting effects.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

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

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