

# THREAD LOCKING MS



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment  
Regulation (EU) 2020/878

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

#### 1.1. Product identifier

Trade name	Thread Locking MS
Product code	Ford Internal Ref.: 105871
SDS Number	8050
Product use	Professional use

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

Relevant identified uses	Adhesives, sealants
Uses advised against	No additional information available.

#### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b> Ford-Werke GmbH Edsel-Ford-Str. 2-14 50769 Cologne Germany +49 221 90-33333 sdseu@ford.com	<b>Distributor</b> Ford Motor Company Ltd. Parts Distribution Centre Royal Oak Way South NN11 8NT Daventry, Northants United Kingdom +44 1327 305 198
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#### 1.4. Emergency telephone number

+49 (0) 6132-84463 (GBK GmbH – 24/7)

### 2. SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008

<b>Health hazards</b>	Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
	Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
	Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation.
<b>Environmental hazards</b>	Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411	Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008

##### Hazard pictograms



##### Signal word

Warning

##### Contains

Tetramethylene dimethacrylate ; 2-Phenylacetohydrazide; maleic acid

**Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves

**Response**

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

**2.3. Other hazards**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

**3. SECTION 3: Composition/information on ingredients****3.2. Mixtures**

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
Tetramethylene dimethacrylate	2082-81-7 218-218-1 01-2119967415-30-XXXX	25 - 50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335	
2,4,6-triallyloxy-1,3,5-triazine	101-37-1 202-936-7 01-2119489756-17-XXXX	5 - <10	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411	
2-[[2,2-bis[[[1-oxoallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	94108-97-1 302-434-9	1 - <5	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Fatty acid amide	126098-16-6 484-050-2 01-0000020228-74-XXXX	0,25 - <2,5	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
$\alpha,\alpha$ -dimethylbenzyl hydroperoxide	80-15-9 201-254-7 617-002-00-8 01-2119475796-19-XXXX	0,1 - <1	Org. Perox. E, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Chronic 2, H411	( 1 ≤C ≤ 3) Eye Irrit. 2, H319 ( 1 ≤C ≤ 10) STOT SE 3, H335 ( 3 ≤C ≤ 10) Skin Irrit. 2, H315 ( 3 ≤C ≤ 10) Eye Dam. 1, H318 ( 10 ≤C ≤ 100) Skin Corr. 1B, H314
2-Phenylacetohydrazide	114-83-0 204-055-3 -	0,1 - <1	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335	
maleic acid	110-16-7 203-742-5 607-095-00-3 01-2119488705-25-XXXX	0,1 - <1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335	
1,4-naphthoquinone	130-15-4 204-977-6 -	0,01 - <0,1	Acute Tox. 3 (Oral), H301 Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	

Full text of H-statements: see section 16

## 4. SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

#### Skin contact:

Take off immediately all contaminated clothing and wash it before reuse. Wash immediately with plenty of water. Get medical advice/attention.

#### Eyes contact

Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

**Ingestion** Do not induce vomiting. Rinse mouth thoroughly. Get immediate medical advice/attention.

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

**Symptoms/effects after inhalation** May cause respiratory irritation.  
**Symptoms/effects after skin contact** May cause an allergic skin reaction. Causes skin irritation.  
**Symptoms/effects after eye contact** Causes serious eye irritation. Redness.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### 5. SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** carbon dioxide (CO<sub>2</sub>). Dry powder. Foam. Water spray.  
**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** Carbon monoxide. Carbon dioxide. Nitrogen oxides.

#### 5.3. Advice for firefighters

**Firefighting instructions** Move containers from fire area if it can be done without personal risk. Use standard firefighting procedures and consider the hazards of other involved materials.  
**Protection during firefighting** Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.  
**Other information** Cool containers exposed to heat with water spray and remove container, if no risk is involved.

### 6. SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**General measures** Evacuate area. Avoid contact with skin and eyes. Ensure adequate ventilation.  
**For non-emergency personnel**  
**Protective equipment** Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the MSDS.  
**Emergency procedures** Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up.  
**For emergency responders**  
**Protective equipment** Wear recommended personal protective equipment. For personal protection, see section 8 of the SDS.  
**Emergency procedures** Keep unnecessary personnel away. Ventilate area.

**6.2. Environmental precautions** Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel of all environmental releases.

#### 6.3. Methods and material for containment and cleaning up

**For containment** Stop leak without risks if possible. Move containers from fire area if it can be done without personal risk.

**Methods for cleaning up** Small spills: Clean surface thoroughly to remove residual contamination. Wipe up with absorbent material (e.g. cloth, fleece). Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Never return spills in original containers for re-use.

**Other information** The product is immiscible with water and will spread on the water surface. Prevent entry into waterways, sewer, basements or confined areas. Dispose in accordance with all applicable regulations.

**6.4. Reference to other sections** For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : " Disposal considerations".

## 7. SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Precautions for safe handling** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid contact with skin, eyes and clothing.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe good industrial hygiene practices.

### 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures** Ensure adequate ventilation, especially in confined areas.

**Storage conditions** Store locked up. Store in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

Adhesives, sealants.

## 8. SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### United Kingdom

Regulation	Substance	Type	Value
	<b>Amorphous silica (68611-44-9)</b> Silica, amorphous	WEL TWA (OEL TWA) [1]	6 mg/m <sup>3</sup> inhalable dust
		WEL TWA (OEL TWA) [2]	2.4 mg/m <sup>3</sup> respirable dust
EH40/2005 (Fourth edition, 2020). HSE	<b>Propane-1,2-diol (57-55-6)</b> Propane-1,2-diol	WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup> 474 mg/m <sup>3</sup>
		WEL TWA (OEL TWA) [2]	150 ppm total vapour and particulates

#### **DNEL: Derived no effect level**

No data available

Components	Type	Route	Value	Form
Tetramethylene dimethacrylate (2082-81-7)	Worker	Inhalation	240 mg/m <sup>3</sup>	Acute - local effects
		Dermal	840 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	59.2 mg/m <sup>3</sup>	Long-term - systemic effects
	Consumer	Oral	3 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	10.4 mg/m <sup>3</sup>	Long-term - systemic effects
		Dermal	60 mg/kg bodyweight/day	Long-term - systemic effects
2,4,6-triallyloxy-1,3,5-triazine	Worker	Inhalation	134.4 mg/m <sup>3</sup>	Acute - systemic effects

(101-37-1)		Dermal	1.5 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	2.12 mg/m <sup>3</sup>	Long-term - systemic effects
Fatty acid amide (126098-16-6)	Worker	Dermal	14 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	9.8 mg/m <sup>3</sup>	Long-term - systemic effects
	Consumer	Oral	8.3 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	2.9 mg/m <sup>3</sup>	Long-term - systemic effects
		Dermal	8.3 mg/kg bodyweight/day	Long-term - systemic effects
$\alpha,\alpha$ -dimethylbenzyl hydroperoxide (80-15-9)	Worker	Inhalation	6 mg/m <sup>3</sup>	Long-term - systemic effects
maleic acid (110-16-7)	Worker	Inhalation	3 mg/m <sup>3</sup>	Acute - systemic effects
		Inhalation	3 mg/m <sup>3</sup>	Acute - local effects
		Inhalation	3 mg/m <sup>3</sup>	Long-term - systemic effects
		Inhalation	3 mg/m <sup>3</sup>	Long-term - local effects

**PNEC: Predicted no effect concentration**

No data available

Components	Type	Route	Value	Form
Tetramethylene dimethacrylate (2082-81-7)	Not applicable	Freshwater	2 mg/l	
		Seawater	0.2 mg/l	
		Freshwater sediment	1 mg/l	Intermittent release
		Freshwater sediment	9.06 mg/kg dwt	Freshwater
		Seawater sediment	0.91 mg/kg dwt	Seawater
		Soil	0.63 mg/kg dwt	
		STP	10 mg/l	
2,4,6-triallyloxy-1,3,5-triazine (101-37-1)	Not applicable	Freshwater	0.007 mg/l	
		Seawater	0.001 mg/l	
		Freshwater sediment	0.07 mg/l	Intermittent release
		Freshwater sediment	0.173 mg/kg dwt	Freshwater
		Seawater sediment	0.017 mg/kg dwt	Seawater
		Soil	0.057 mg/kg dwt	
		Oral	0.119 kg/kg food	Secondary Poisoning
Fatty acid amide (126098-16-6)	Not applicable	Freshwater	0 mg/l	
		Freshwater sediment	0 mg/l	Intermittent release
		Freshwater sediment	55.54 mg/kg dwt	Freshwater
		Seawater sediment	5.554 mg/kg dwt	Seawater
		Soil	66.576 mg/kg dwt	
		Oral	33.33 kg/kg food	Secondary Poisoning
		STP	10 mg/l	
$\alpha,\alpha$ -dimethylbenzyl hydroperoxide (80-15-9)	Not applicable	Freshwater	0.003 mg/l	
		Seawater	0 mg/l	
		Freshwater sediment	0.23 mg/kg dwt	Freshwater
		Seawater sediment	0.002 mg/kg dwt	Seawater
		Soil	0.003 mg/kg dwt	
		STP	0.35 mg/l	
maleic acid (110-16-7)	Not applicable	Freshwater	0.1 mg/l	

Seawater	0.01 mg/l	
Freshwater	0.428 mg/l	Intermittent release
sediment	0.334 mg/kg dwt	Freshwater
sediment	0.033 mg/kg dwt	Seawater
Soil	0.042 mg/kg dwt	
STP	44.6 mg/l	

## 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

### Materials for protective clothing

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye protection

Safety glasses with side shields. EN 166.

#### Skin protection

##### Hand protection

Protective gloves. EN 374. The recommendation is only valid for the supplied product and the stated application. Special working conditions, like heat or mechanical strain, which deviate from the test conditions, can reduce the protective effect provided by the recommended glove

Material	Permeation	Thickness (mm)	Comments
Nitrile rubber (NBR)	240 - 479 minutes	0,4	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.
In case of splash contact: Nitrile rubber (NBR)	240 - 479 minutes	0,4	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.

##### Other protective measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn

Device	Filter type	Condition	Comments
EN 141	Type A - High-boiling (>65 °C) organic compounds		

#### Skin and body protection

Wear suitable protective clothing, Long sleeved protective clothing, EN 14605, EN ISO 13982

#### Thermal hazard protection

Wear appropriate thermal protective clothing, when necessary.

#### Environmental exposure controls

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 9. SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Blue.
Odour	Characteristic.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	70 – 149 °C
Flash point	> 93 °C

<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	1.7 mbar @25°C
<b>Vapour pressure at 50 °C</b>	< 300 mbar
<b>Relative vapour density at 20 °C</b>	No data available
<b>Relative density</b>	No data available
<b>Density</b>	1.08 g/cm <sup>3</sup>
<b>Solubility</b>	insoluble in water. Soluble in acetone.
<b>Log Pow</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Viscosity, dynamic</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Explosive limits</b>	No data available

## 9.2. Other information

<b>VOC (EU)</b>	< 3 %
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## 10. SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reactions known under normal conditions of use.
<b>10.4. Conditions to avoid</b>	No additional information available.
<b>10.5. Incompatible materials</b>	Peroxides.
<b>10.6. Hazardous decomposition products</b>	Carbon oxides (CO, CO <sub>2</sub> ).

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

#### Mixture

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
Thread Locking MS	(calculated value)	ATE	oral	> 20000	mg/kg		

#### Substance

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
2,4,6-triallyloxy-1,3,5-triazine (101-37-1)	(OECD 401 method)	LC50	oral	753	mg/kg	rat	
α,α-dimethylbenzyl hydroperoxide (80-15-9)		LD50	oral	800	mg/kg		
		ATE	Dermal	1100	mg/kg		
		ATE	Inhalation	3	mg/l/4h		vapours
2-Phenylacetohydrazide (114-83-0)	(acc. CLP 3.1.2)	ATE	oral	50 - < 300	mg/kg		

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/irritation** Causes serious eye irritation.

<b>Respiratory or skin sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	May cause respiratory irritation.
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met
<b>Potential adverse human health effects and symptoms</b>	Exposure may produce an allergic reaction. Information on Effects: refer to section 4.

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

**Ecology - general** Toxic to aquatic life with long lasting effects.

#### Hazardous to the aquatic environment, short-term (acute)

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
2,4,6-triallyloxy-1,3,5-triazine (101-37-1)	Fish	Fish	LC50	7.05 mg/l	96 h	(OECD 203 method)
	aquatic invertebrates	Daphnia magna	EC50	40 mg/l	48 h	(OECD 202 method)
	microorganisms	microorganisms	EC50	> 1000 mg/l	3 h	(OECD 209 method)
Fatty acid amide (126098-16-6)	algae	algae	EC50	0,025 mg/l	72h	(OECD 201 method)
	aquatic invertebrates	Daphnia magna	EC50	> 0,024 mg/l	48 h	(OECD 202 method)
α,α-dimethylbenzyl hydroperoxide (80-15-9)	crustacea		EC50	7 mg/l	24 h	
	Fish		LC50	3,9 mg/l	96 h	
2-[[2,2-bis[[[1-(oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate (94108-97-1)	aquatic invertebrates	Daphnia magna	EC50	> 10 mg/l	48 h	(OECD 202 method)
	Fish	Cyprinus carpio	LC50	1,2 mg/l	96 h	(OECD 203 method)
	algae	Pseudokirchnerella subcapitata	EC50	> 12 mg/l	72 h	(OECD 201 method)
	algae	Pseudokirchnerella subcapitata	NOEC	< 0,35 mg/l	72 h	(OECD 201 method)

#### Hazardous to the aquatic environment, long-term (chronic)

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
Fatty acid amide (126098-16-6)	algae	algae	NOEC	0,0073 mg/l	72h	(OECD 201 method)
	crustacea	Daphnia magna	NOEC	>0,024 mg/l	48h	(OECD 202 method)
	Fish	Cyprinus carpio (Common carp)	NOEC	>0,024 mg/l	96h	(OECD 203 method)

### 12.2. Persistence and degradability

#### 2,4,6-triallyloxy-1,3,5-triazine (101-37-1)

**Persistence and degradability** Not readily biodegradable. (OECD 301B method).

**Biodegradation** 7 – 9 % 28 days

#### Fatty acid amide (126098-16-6)

**Persistence and degradability** Not readily biodegradable. (OECD 301B method).

**Fatty acid amide (126098-16-6)**

Biodegradation	7 % 28 days
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**2-[[2,2-bis[[1-(oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate (94108-97-1)**

Persistence and degradability	Not readily biodegradable. (OECD 301B method).
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Biodegradation	4 – 14 % 29 days
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**12.3. Bioaccumulative potential****2,4,6-triallyloxy-1,3,5-triazine (101-37-1)**

Log Kow	3.25 (OECD 107 method)
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**Fatty acid amide (126098-16-6)**

Log Pow	> 6.5 (OECD 117 method)
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 **$\alpha,\alpha$ -dimethylbenzyl hydroperoxide (80-15-9)**

Log Pow	1.6
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**2-[[2,2-bis[[1-(oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate (94108-97-1)**

Log Pow	4.14 (OECD 117 method)
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**12.4. Mobility in soil****Thread Locking MS**

Ecology - soil	Hardened adhesives are immobile.
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**12.5. Results of PBT and vPvB assessment****Thread Locking MS**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

**12.6. Other adverse effects****Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

**13. SECTION 13: Disposal considerations****13.1. Waste treatment methods****Regional legislation (waste)**

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations.

**Waste treatment methods**

Collect and reclaim or dispose in closed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not allow to enter drains or water courses. Dispose of contents/container in accordance with licensed collector's sorting instructions.

**European List of Waste (LoW) code**

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

08 04 09\*

waste adhesives and sealants containing organic solvents or other dangerous substances

15 01 10\*

packaging containing residues of or contaminated by dangerous substances

**14. SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

<b>14.1. UN number</b>		
UN-No. (ADR)		3082
UN-No. (IMDG)		3082
UN-No. (IATA)		3082
UN-No. (ADN)		3082
UN-No. (RID)		3082
<b>14.2. UN proper shipping name</b>		
Proper Shipping Name (ADR)		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid amide)
Proper Shipping Name (IMDG)		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid amide)
Proper Shipping Name (IATA)		Environmentally hazardous substance, liquid, n.o.s. (Fatty acid amide)
Proper Shipping Name (ADN)		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid amide)
Proper Shipping Name (RID)		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid amide)
<b>14.3. Transport hazard class(es)</b>		
<b>ADR</b>		
Transport hazard class(es) (ADR)	9	
Danger labels (ADR)	9	
<b>IMDG</b>		
Transport hazard class(es) (IMDG)	9	
Danger labels (IMDG)	9	
<b>IATA</b>		
Transport hazard class(es) (IATA)	9	
Hazard labels (IATA)	9	
<b>ADN</b>		
Transport hazard class(es) (ADN)	9	
Danger labels (ADN)	9	
<b>RID</b>		
Transport hazard class(es) (RID)	9	
Danger labels (RID)	9	
<b>14.4. Packing group</b>		
Packing group (ADR)		III
Packing group (IMDG)		III
Packing group (IATA)		III
Packing group (ADN)		III
Packing group (RID)		III
<b>14.5. Environmental hazards</b>		
Dangerous for the environment		Yes
Marine pollutant		Yes
Other information		No supplementary information available.
<b>14.6. Special precautions for user</b>		
<b>Overland transport</b>		
Classification code (ADR)		M6

Special provisions (ADR)	274, 335, 375, 601
Limited quantities (ADR)	5l
Packing instructions (ADR)	P001, IBC03, LP01, R001
Hazard identification number (Kemler No.)	90
Tunnel restriction code (ADR)	-
EAC code	•3Z

#### Transport by sea

Special provisions (IMDG)	274, 335, 969
Limited quantities (IMDG)	5 L
Packing instructions (IMDG)	LP01, P001
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F
Stowage category (IMDG)	A

#### Air transport

PCA Excepted quantities (IATA)	E1
PCA Limited quantities (IATA)	Y964
PCA limited quantity max net quantity (IATA)	30kgG
PCA packing instructions (IATA)	964
PCA max net quantity (IATA)	450L
CAO packing instructions (IATA)	964
CAO max net quantity (IATA)	450L
Special provisions (IATA)	A97, A158, A197
ERG code (IATA)	9L

#### Inland waterway transport

Classification code (ADN)	M6
Special provisions (ADN)	274, 335, 375, 601
Limited quantities (ADN)	5 L

#### Rail transport

Classification code (RID)	M6
Special provisions (RID)	274, 335, 375, 601
Limited quantities (RID)	5L
Packing instructions (RID)	P001, IBC03, LP01, R001
Hazard identification number (RID)	90

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

Not applicable

## 15. SECTION 15: Regulatory information

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

#### EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide ; cumene	3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
Thread Locking MS ; Tetramethylene dimethacrylate ; $\alpha,\alpha$ -dimethylbenzyl hydroperoxide ; 2-Phenylacetohydrazide ; 2-[[[2,2-bis[[[1-oxoallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate ; cumene	3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

Thread Locking MS ;  $\alpha,\alpha$ -dimethylbenzyl hydroperoxide ; 2-[[2,2-bis[[1-oxoallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate ; cumene  
cumene

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:  
Hazard class 4.1

40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### VOC (EU)

< 3 %

#### Other information, restriction and prohibition regulations

Directive 94/33/EC on the protection of young people at work, as amended.  
Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended. Directive 92/85/EEC on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding as amended. For details, refer to section 3 and 8.

#### Seveso Information

E2 Hazardous to the Aquatic Environment in Category Chronic 2

#### National regulations

No additional information available.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. SECTION 16: Other information

#### Indication of changes

Section 1 - Section 16.

#### Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Occupational exposure limit value
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Federal Institute for Materials Research and Testing, Germany
BAT	Maximum permissible concentration of biological working substances.
BCF	Bio-concentration factor.
BLV	Biological limit values
BLV	Biological limit values (BGW, Austria)
BMGV	Biological Monitoring Guidance Value (EH40,UK).
BOD5	Biochemical oxygen demand within 5 days
BOD	Biochemical oxygen demand
bw	Body weight.
calcd.	Calculated
CAS	Chemical Abstract Service.
CEN	European Committee for Standardization
CESIO	European Committee on Organic Surfactants and their Intermediates.
COD	Chemical oxygen demand
CLP	Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR	Carcinogenic, Mutagenic or Reproduction Toxic Substances

CSA	Chemical safety assessment
CSR	Chemical Safety Report.
DMEL	Derived Minimum Effect Level.
DNEL	Derived no effect level
EAC	European waste catalogue
EC	European community
EC50	Effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EN	European norm.
ERC	ERC (Environmental Release category)
EU	European Union
GLP	Good Laboratory Practice.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
GW/VL	Occupational exposure limit value.
GW-kw/VL-cd	Occupational exposure limit value - short term.
GW-M/VL-M	Occupational exposure limit value – "Ceiling".
IATA	International Air Transport Association
IBC code	International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk).
ICAO	International Civil Aviation Organization
IC50	Inhibition Concentration 50%.
IECSC	Inventory of Existing Chemical Substances in China.
IMDG	International Maritime Dangerous Goods
ISO	International Standards Organization.
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal Concentration 50%.
LCLo	Lowest published lethal concentration.
LD50	Lethal Dose 50%.
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest observable effect concentration.
LOEL	Lowest observable effect level.
LQ	Limited quantities
TRK-Kzw	Threshold limit value - Short-term exposure limit / Technical reference concentration - short-time value, Austria.
MAK-Mow	Maximum allowable workplace concentration – instantaneous value, Austria.
MAK-Tmw, TRK-Tmw	Maximum allowable workplace concentration – daily mean value / Technical standard concentration – daily mean value, Austria.
MAK	Threshold limit values Germany.
MARPOL	International Convention for the Prevention of Pollution from Ships.
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
NOEL	no-observed-effect level
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limits
PBT	Persistent Bioaccumulative Toxic

PC (Chemical product category)	PC (Chemical product category)
PNEC	Predicted No-Effect Concentration
POCP	Photochemical ozone creation potential.
POP	Persistent Organic Pollutants
PPE	Personal protective equipment
Process category	Process category
REACH	Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL	Specific concentration limit.
STEL	Short-term Exposure Limit
STP	Sewage treatment plant
SU (Sector of use)	SU (Sector of use)
SVHC	Substance of Very High Concern.
TLV	Threshold Limit Value
TRGS	Technical Rules for Hazardous Substances (German Standard).
TWA	Time Weighted Average
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
VbF	Ordinance on Flammable Liquids, Austria
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL-TWA	Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period).
WEL-STEL	Workplace Exposure Limit-Short term exposure limit (15-minute reference period).

**Data sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006..

**Training advice**

Normal use of this product shall imply use in accordance with the instructions on the packaging

**Full text of H- and EUH-statements**

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Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1.
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3.
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3.
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4.
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4.
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1.
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2.
Carc. 2	Carcinogenicity, Category 2.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2.
Org. Perox. E	Organic Peroxides, Type E.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B.
Skin Irrit. 2	Skin corrosion/irritation, Category 2.
Skin Sens. 1	Skin sensitisation, Category 1.
Skin Sens. 1B	Skin sensitisation, category 1B.

STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2.
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation.
H242	Heating may cause a fire..
H301	Toxic if swallowed..
H302	Harmful if swallowed..
H312	Harmful in contact with skin..
H314	Causes severe skin burns and eye damage..
H315	Causes skin irritation..
H317	May cause an allergic skin reaction..
H318	Causes serious eye damage..
H319	Causes serious eye irritation..
H330	Fatal if inhaled..
H331	Toxic if inhaled..
H335	May cause respiratory irritation..
H351	Suspected of causing cancer..
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..

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]**

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 2	H411	Calculation method

*The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.*

Attachment to the Safety Data Sheet



**Product Name:** Thread Locking MS

**Ford Int. Ref. No.:** 105871

REVISION DATE: 19.02.2021

**Involved Products:**

	<b>Finiscode</b>	<b>Part number</b>	<b>Container Size:</b>
.	1 1 790 196	2U7J M2G349 AB	10 ml