

THREAD LOCKING MS



SAFETY DATA SHEET

Compiled in accordance with REACH Regulation (EC) No 1907/2006, as retained and amended in UK law

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

1.1. Product identifier

Product form : Mixture
Trade name : Thread Locking MS
Product code : Ford Internal Ref.: 508469
SDS Number : 11345
Unique Formula Identifier (UFI) : 68EK-4H8H-NQ4D-9CRD
Product use : Professional use

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

1.2.1. Relevant identified uses

Function or use category : Adhesives, sealants

1.2.2. Uses advised against

Restrictions on use : None known

1.3. Details of the supplier of the safety data sheet

Supplier

Ford-Werke GmbH
Edsel-Ford-Str. 2-14
50769 Cologne
Germany
+49 221 90-33333
sdseu@ford.com

Distributor

Ford Motor Company Ltd.
Parts Distribution Centre
Royal Oak Way South
NN11 8NT Daventry, Northants
United Kingdom
+44 1327 305 198

1.4. Emergency telephone number

+49 (0) 6132-84463 (GBK GmbH – 24/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations

Health hazards	Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
Environmental hazards	Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412	Harmful to aquatic life with long lasting effects.

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations

Hazard pictograms



Signal word

Warning

Contains

Tetramethylene dimethacrylate ; maleic acid; 2-Phenylacetohydrazide

Hazard statements

H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements**Prevention**

P273 Avoid release to the environment.
P280 Wear protective gloves.

Response

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

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.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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 [CLP]	Notes
Tetramethylene dimethacrylate	2082-81-7 218-218-1 01-2119967415-30-XXXX	25 - 50	Skin Sens. 1B, H317	
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 (ATE=500 mg/kg bodyweight) Aquatic Chronic 2, H411	
Reaction products of acrylic acid with 2,2'-[oxybis(methylene)]bis[2-ethylpropane-1,3-diol]	1393932-71-2 830-217-3 01-2119977121-41-XXXX	1 - < 5	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
α,α -dimethylbenzyl hydroperoxide	80-15-9 201-254-7 617-002-00-8 01-2119475796-19-XXXX	0,1 - < 1	Self-react. E, H242 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 2 (Inhalation:vapour), H330 (ATE=0.5 mg/l/4h) 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) Eye Dam. 1; H318 (3 ≤ C < 10) Skin Irrit. 2; H315 (10 ≤ C < 100) Skin Corr. 1B; H314
maleic acid	110-16-7 203-742-5 607-095-00-3 01-2119488705-25-XXXX	0,1 - < 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg) Skin Irrit. 2, H315 Eye Irrit. 2, H319	(0.1 ≤ C < 100) Skin Sens. 1; H317

			Skin Sens. 1, H317 STOT SE 3, H335	
2-Phenylacetohydrazide	114-83-0 204-055-3 - 01-2120951382-56-XXXX	0,1 - < 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg) Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 (M=1.0) Aquatic Chronic 1, H410 (M=1.0)	
methacrylic acid	79-41-4 201-204-4 607-088-00-5 01-2119463884-26-XXXX	0,1 - < 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg) Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335	(1 ≤ C ≤ 100) STOT SE 3; H335 (Note D)
1,4-naphthoquinone	130-15-4 204-977-6 -	0,0025 - < 0,025	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg) Acute Tox. 1 (Inhalation), H330 (ATE=0.05 mg/l/4h) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1.0)	

Note D - Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Wash immediately with plenty of water. Get medical advice/attention.
First-aid measures after eye 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.
First-aid measures after 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 skin contact	: Causes skin irritation. Skin rash/inflammation. Defatting, drying and cracking of skin.
Symptoms/effects after eye contact	: May cause eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical, CO ₂ , or water spray or regular foam.
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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 decomposition products in case of fire : Carbon oxides (CO, CO₂). During fire, gases hazardous to health may be formed. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. 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.

6.1.2. 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".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid release to the environment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Protect material from direct sunlight. Observe good industrial hygiene practices.

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 tightly closed in a dry, cool and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.3. Specific end use(s)

Adhesives, sealants.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

methacrylic acid (79-41-4)

United Kingdom - Occupational Exposure Limits

Local name	Methacrylic acid
WEL TWA (OEL TWA)	72 mg/m ³ 20 ppm
WEL STEL (OEL STEL)	143 mg/m ³ 40 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Exposure limit values for the other components

Amorphous silica (68611-44-9)

United Kingdom - Occupational Exposure Limits

Local name	Silica, amorphous
WEL TWA (OEL TWA)	6 mg/m ³ inhalable dust 2.4 mg/m ³ respirable dust

Propane-1,2-diol (57-55-6)

United Kingdom - Occupational Exposure Limits

Local name	Propane-1,2-diol
WEL TWA (OEL TWA)	10 mg/m ³ particulates 474 mg/m ³ total vapour and particulates 150 ppm total vapour and particulates
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Tetramethylene dimethacrylate (2082-81-7)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	4.2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	14.5 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	2.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	4.3 mg/m ³
Long-term - systemic effects, dermal	2.5 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0.043 mg/l
PNEC aqua (marine water)	0.004 mg/l

PNEC aqua (intermittent, freshwater)	0.098 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3.12 mg/kg dwt
PNEC sediment (marine water)	0.312 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.573 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	20 mg/l

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

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	134.4 mg/m ³
Long-term - systemic effects, dermal	1.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.12 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	0.007 mg/l
PNEC aqua (marine water)	0.001 mg/l
PNEC aqua (intermittent, freshwater)	0.07 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0.173 mg/kg dwt
PNEC sediment (marine water)	0.017 mg/kg dwt

PNEC (Soil)

PNEC soil	0.057 mg/kg dwt
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PNEC (Oral)

PNEC oral (secondary poisoning)	0.119 kg/kg food
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PNEC (STP)

PNEC sewage treatment plant	10 mg/l
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α,α-dimethylbenzyl hydroperoxide (80-15-9)

DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation	6 mg/m ³
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PNEC (Water)

PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (marine water)	0.01 mg/l
PNEC aqua (intermittent, freshwater)	0.031 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0.758 mg/kg dwt
PNEC sediment (marine water)	0.076 mg/kg dwt

PNEC (Soil)

PNEC soil	0.093 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	50 mg/l
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maleic acid (110-16-7)

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	3 mg/m ³
Acute - local effects, inhalation	3 mg/m ³
Long-term - systemic effects, inhalation	3 mg/m ³
Long-term - local effects, inhalation	3 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (marine water)	0.01 mg/l
PNEC aqua (intermittent, freshwater)	0.428 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0.334 mg/kg dwt
PNEC sediment (marine water)	0.033 mg/kg dwt

PNEC (Soil)

PNEC soil	0.042 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	44.6 mg/l
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methacrylic acid (79-41-4)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	4.25 mg/kg bw/day
Long-term - local effects, dermal	0.38 mg/cm ²
Long-term - systemic effects, inhalation	39.3 mg/m ³
Long-term - local effects, inhalation	44 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	5.35
Long-term - systemic effects, inhalation	11.7 mg/m ³
Long-term - systemic effects, dermal	5.35 mg/kg bw/day
Long-term - local effects, dermal	0.23 mg/cm ²
Long-term - local effects, inhalation	8.8 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	0.82 mg/l
PNEC aqua (marine water)	0.082 mg/l
PNEC aqua (intermittent, freshwater)	0.45 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	3.09 mg/kg dwt
PNEC sediment (marine water)	0.309 mg/kg dwt

PNEC (Soil)

PNEC soil	0.137 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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PNEC (Water)

PNEC aqua (freshwater)	0.001 mg/l
PNEC aqua (marine water)	0 mg/l
PNEC aqua (intermittent, freshwater)	0.012 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0.48 mg/kg dwt
PNEC sediment (marine water)	0.048 mg/kg dwt

PNEC (Soil)

PNEC soil	0.096 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering 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.

8.2.2. Personal protection equipment

Personal protective equipment:

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

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields. EN 166.

8.2.2.2. Skin protection

Skin and body protection:

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

Hand protection:

protective gloves. DIN ISO 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 skin protection

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

8.2.2.3. Respiratory protection

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

Respiratory protection

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

8.2.2.4. Thermal hazards

Thermal hazard protection:

Wear appropriate thermal protective clothing, when necessary.

8.2.3. Environmental exposure controls

Environmental exposure controls:

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

Other information:

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Blue.
Odour	: mild . acrylic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: < -30 °C
Boiling point	: > 150 °C
Flammability	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: > 100 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
pH	: Not applicable
Viscosity, kinematic	: > 20.5 mm ² /s @ 40°C
Solubility	: Soluble in acetone. Water: Slightly soluble @ 20 °C
Log Kow	: Not available
Vapour pressure	: < 0.13 mbar @ 20 °C
Vapour pressure at 50°C	: < 300 mbar
Density	: 1.08 g/cm ³ @ 20 °C
Relative density	: Not available
Relative vapour density at 20°C	: > 1
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : < 3 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Oxidising agents. Strong acids. Strong alkalis. Reducing agents.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. On combustion, forms: carbon oxides (CO and CO₂). Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Based on available data, the classification criteria are not met
Acute toxicity (dermal)	: Based on available data, the classification criteria are not met
Acute toxicity (inhalation)	: Based on available data, the classification criteria are not met

Thread Locking MS	
ATE CLP (oral)	> 2000 mg/kg
ATE CLP (dermal)	> 5000 mg/kg
ATE CLP (vapours)	> 20 mg/l
α,α-dimethylbenzyl hydroperoxide (80-15-9)	
LD50 oral	382 mg/kg
LC50 Inhalation - Rat	1.37 mg/l
LC50 Inhalation - Rat [ppm]	220 ppm
maleic acid (110-16-7)	
LD50 oral rat	708 mg/kg
2-Phenylacetohydrazide (114-83-0)	
LD50 oral rat	310.2 mg/kg (OECD 425 method); Up and down procedure
methacrylic acid (79-41-4)	
LD50 oral rat	1320 mg/kg bodyweight (OECD 401 method)
LD50 dermal rabbit	500 – < 1000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	3.19 – 6.5 mg/l/4h (OECD 403 method)
1,4-naphthoquinone (130-15-4)	
LD50 oral rat	124 mg/kg (OECD 401 method)
LC50 Inhalation - Rat	0.046 mg/l (OECD 403 method)

Skin corrosion/irritation	: Based on available data, the classification criteria are not met pH: Not applicable
Serious eye damage/irritation	: Based on available data, the classification criteria are not met pH: Not applicable
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met

Carcinogenicity	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Based on available data, the classification criteria are not met
STOT-single exposure	: Based on available data, the classification criteria are not met

maleic acid (110-16-7)	
STOT-single exposure	May cause respiratory irritation.
methacrylic acid (79-41-4)	
STOT-single exposure	May cause respiratory irritation.
1,4-naphthoquinone (130-15-4)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Based on available data, the classification criteria are not met
α,α-dimethylbenzyl hydroperoxide (80-15-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Based on available data, the classification criteria are not met
Thread Locking MS	
Viscosity, kinematic	> 20.5 mm ² /s @ 40°C

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

Potential adverse human health effects and symptoms : Exposure may produce an allergic reaction, Information on Effects: refer to section 4

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Based on available data, the classification criteria are not met
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

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

LC50 - Fish [1] 7.05 mg/l 96 h, Danio rerio (OECD 203 method)

α,α -dimethylbenzyl hydroperoxide (80-15-9)

LC50 - Fish [1] 3.9 mg/l 96 h; Oncorhynchus mykiss (Rainbow trout)(OECD 203 method)

EC50 - Crustacea [1] 18.84 mg/l 48 h; Daphnia magna (Water flea)(OECD 202 method)

EC50 72h - Algae [1] 3.1 mg/l 72 h; Desmodesmus subspicatus(OECD 201 method)

2-Phenylacetohydrazide (114-83-0)

EC50 - Crustacea [1] 1.1 mg/l 48 h; Daphnia magna (Water flea)(OECD 202 method)

NOEC chronic algae 0.012 mg/l 72h; Pseudokirchneriella subcapitata (OECD 201 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

α,α-dimethylbenzyl hydroperoxide (80-15-9)

Persistence and degradability	Not readily biodegradable. (OECD 301B method).
Biodegradation	2 – 7 % 28 days

maleic acid (110-16-7)

Persistence and degradability	Readily biodegradable, according to appropriate OECD test. (OECD 301B method).
Biodegradation	97.08 % 28 days

2-Phenylacetohydrazide (114-83-0)

Persistence and degradability	Not readily biodegradable. (OECD 301D method).
Biodegradation	39 % 28 day

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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α,α-dimethylbenzyl hydroperoxide (80-15-9)

Bioconcentration factor (BCF REACH)	9.1 (OECD 305 method)
Log Pow	1.6 (OECD 117 method)

maleic acid (110-16-7)

Log Pow	-1.3 (OECD 107 method)
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2-Phenylacetohydrazide (114-83-0)

Log Pow	0.74 Quantitative structure-activity relationship (QSAR)
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12.4. Mobility in soil

No additional information available

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. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12.7. 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

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

Regional waste regulation

: 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.

SECTION 14: Transport information

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

Not regulated for transport

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)

Reference code **Applicable on**
3(b) Thread Locking MS ; Tetramethylene dimethacrylate ; α,α -dimethylbenzyl hydroperoxide ; 2-Phenylacetohydrazide ; methacrylic acid

3(c) Thread Locking MS ; α,α -dimethylbenzyl hydroperoxide ; 2-Phenylacetohydrazide

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

VOC content : < 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.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not applicable

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

SECTION 3. Composition/information on ingredients.

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
STEL	Short-term Exposure Limit
VOC	Volatile organic compounds
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative
OEL	Occupational Exposure Limit
RRN	REACH Registration no.
TWA	Time Weighted Average. The average concentration of a chemical in air over the total exposure time-usually an 8-hour workday.

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

Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1
Acute Tox. 2 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), 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
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
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
Self-react. E	Self-Reactive Substances and Mixtures, Type E
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
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.
H311	Toxic in contact with skin.
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.
H332	Harmful 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.
H412	Harmful 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 Sens. 1 H317 Calculation method

Aquatic Chronic 3 H412 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



Productname: Thread Locking MS

Ford Internal Ref.: 508469

Revision Date: 15.01.2026

Involved Products:

	Finiscode	Part Number	Packaging
1	2 707 594	PU7J M2G349 AA	10 ml