

THREAD LOCKING HS



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 HS
Product code : Ford Internal Ref.: 174256
SDS Number : 8055
Unique Formula Identifier (UFI) : DK5S-86AK-UM1G-FUCG
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

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	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.
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

2-hydroxypropyl methacrylate; 2,2'-ethylenedioxydiethyl dimethacrylate; [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate; α,α -dimethylbenzyl hydroperoxide; 2-Phenylacetohydrazide; 2-hydroxyethyl methacrylate; Methyl methacrylate; 2-Propenoic acid, 2-methyl-, 1-methyl-, 1,2-ethanediyl ester

Hazard statements

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

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

Response

P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

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
2-hydroxypropyl methacrylate	27813-02-1 248-666-3 - 01-2119490226-37-XXXX	25 - 50	Eye Irrit. 2, H319 Skin Sens. 1, H317	
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0 203-652-6 01-2119969287-21-XXXX	5 - < 10	Skin Sens. 1B, H317	
[2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6 244-096-4 - 01-2120137902-58-XXXX	1 - < 3	Eye Dam. 1, H318 Skin Sens. 1, H317	
α,α -dimethylbenzyl hydroperoxide	80-15-9 201-254-7 617-002-00-8 01-2119475796-19-XXXX	0,25 - < 2,5	Self-react. C, H242 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)	(1 $\leq$ C < 3) Eye Irrit. 2; H319 (1 $\leq$ C < 10) STOT SE 3; H335 (3 $\leq$ C < 10) Eye Dam. 1; H318

			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	(3 ≤ C < 10) Skin Irrit. 2; H315 (10 ≤ C < 100) Skin Corr. 1B; H314
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 bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) 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)
2-Phenylacetohydrazide	114-83-0 204-055-3 - 01-2120951382-56-XXXX	0,1 - < 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 (M=1.0) Aquatic Chronic 1, H410 (M=1.0)	
2-hydroxyethyl methacrylate	868-77-9 212-782-2 607-124-00-X 01-2119490169-29-XXXX	0,1 - < 1	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317	(Note D)
Methyl methacrylate	80-62-6 201-297-1 607-035-00-6 01-2119452498-28-XXXX	0,1 - < 1	Flam. Liq. 2, H225 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317	# (Note D)
2-Propenoic acid, 2-methyl-, 1-methyl-1,2-ethanediyl ester	7559-82-2 616-239-4	0,1 - < 1	Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Chronic 3, H412	

Comments

: #: substance with a Community workplace exposure limit

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

: Call a poison center or a doctor if you feel unwell. 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. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact

: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: 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. Consult an ophthalmologist if irritation persists.

First-aid measures after ingestion : If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : May cause respiratory irritation. May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

Symptoms/effects after skin contact : May cause an allergic skin reaction. irritation (itching, redness, blistering).

Symptoms/effects after eye contact : Eye irritation. Conjunctivitis.

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 : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Thermal decomposition generates : Nitrous oxide. Carbon oxides (CO, CO₂).

5.3. Advice for firefighters

Precautionary measures fire : Keep away from combustible materials.

Firefighting instructions : Prevent runoff from entering water courses, sewers and basements. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : If spilled, may cause the floor to be slippery. Avoid inhalation of vapours. Do not touch or walk on the spilled product. Keep unnecessary personnel away.

6.1.1. For non-emergency personnel

Protective equipment : Wear appropriate protective equipment and clothing during clean-up. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Keep people away from and upwind of spill/leak. Keep unnecessary personnel away. Ventilate spillage area. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Keep unnecessary personnel away.

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 the flow of material, if this is without risk. Move containers from fire area if it can be done without personal risk.

Methods for cleaning up : Large Spills: Stop leak if safe to do so. 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. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

Other information : Dispose of materials or solid residues at an authorized site.

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	: Use only outdoors or in a well-ventilated area. Avoid breathing fume, vapours. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Incompatible products	: Keep away from open flames, hot surfaces and sources of ignition.

7.3. Specific end use(s)

adhesives.

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

Methyl methacrylate (80-62-6)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Methyl methacrylate
IOEL TWA	50 ppm
IOEL STEL	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU

United Kingdom - Occupational Exposure Limits

Local name	Methyl methacrylate
WEL TWA (OEL TWA)	208 mg/m ³ 50 ppm
WEL STEL (OEL STEL)	416 mg/m ³ 100 ppm
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

2-hydroxypropyl methacrylate (27813-02-1)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 4.2 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 14.7 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, oral 2.5 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 4.35 mg/m³

Long-term - systemic effects, dermal 2.5 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater) 0.904 mg/l

PNEC aqua (marine water) 0.904 mg/l

PNEC aqua (intermittent, freshwater) 0.972 mg/l

PNEC aqua (intermittent, marine water) 0.972 mg/l

PNEC (Sediment)

PNEC sediment (freshwater) 6.28 mg/kg dwt

PNEC sediment (marine water) 6.28 mg/kg dwt

PNEC (Soil)

PNEC soil 0.727 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 10 mg/l

2,2'-ethylenedioxydiethyl dimethacrylate (109-16-0)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 13.9 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 48.5 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, oral 8.33 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 14.5 mg/m³

Long-term - systemic effects, dermal 8.33 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater) 0.016 mg/l

PNEC aqua (marine water) 0.002 mg/l

PNEC aqua (intermittent, freshwater) 0.016 mg/l

PNEC (Sediment)

PNEC sediment (freshwater) 0.185 mg/kg dwt

PNEC sediment (marine water) 0.018 mg/kg dwt

PNEC (Soil)

PNEC soil 0.027 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 1.7 mg/l

methacrylic acid (79-41-4)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	4.25 mg/kg bodyweight/day
Long-term - local effects, dermal	0.38 mg/cm²
Long-term - systemic effects, inhalation	39.3 mg/m³
Long-term - local effects, inhalation	44 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	5.35
Long-term - systemic effects, inhalation	11.7 mg/m³
Long-term - systemic effects, dermal	5.35 mg/kg bodyweight/day
Long-term - local effects, dermal	0.23 mg/cm²
Long-term - local effects, inhalation	8.8 mg/m³

PNEC (Water)

PNEC aqua (freshwater)	0.82 mg/l
PNEC aqua (marine water)	0 mg/l
PNEC aqua (intermittent, freshwater)	0.82 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0.024 mg/kg dwt
PNEC sediment (marine water)	0.002 mg/kg dwt

PNEC (Soil)

PNEC soil	1.2 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	10 mg/l
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2-hydroxyethyl methacrylate (868-77-9)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	1.39 mg/kg bw/day
Long-term - systemic effects, inhalation	4.9 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	0.83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.45 mg/m³
Long-term - systemic effects, dermal	0.83 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0.482 mg/l
PNEC aqua (marine water)	0.048 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	3.79 mg/kg dwt
PNEC sediment (marine water)	3.79 mg/kg dwt

PNEC (Soil)

PNEC soil	0.476 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	10 mg/l
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Methyl methacrylate (80-62-6)

DNEL/DMEL (Workers)

Acute - local effects, dermal	1.5 mg/cm ²
Long-term - systemic effects, dermal	13.67 mg/kg bodyweight/day
Long-term - local effects, dermal	1.5 mg/cm ²
Long-term - systemic effects, inhalation	348.4 mg/m ³
Long-term - local effects, inhalation	208 mg/m ³

DNEL/DMEL (General population)

Acute - local effects, dermal	1.5 mg/cm ²
Long-term - systemic effects, oral	8.2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	74.3 mg/m ³
Long-term - systemic effects, dermal	8.2 mg/kg bodyweight/day
Long-term - local effects, dermal	1.5 mg/cm ²
Long-term - local effects, inhalation	104 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	0.94 mg/l
PNEC aqua (marine water)	0.094 mg/l
PNEC aqua (intermittent, freshwater)	0.69 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	10.2 mg/kg dwt
PNEC sediment (marine water)	1.02 mg/kg dwt

PNEC (Soil)

PNEC soil	1.48 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	10 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:

EN 166. Chemical goggles or face shield

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable 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)	6 (> 480 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)	6 (> 480 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 protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment

8.2.2.3. Respiratory protection**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Recommended: Filter A (brown).

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:**

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	: Green.
Odour	: mild . acrylic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: > 150 °C
Flammability	: Not applicable
Explosive limits	: Not applicable
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 mm²/s
Solubility	: In water, material is partially soluble.
Log Kow	: Not available
Vapour pressure	: < 0.13 mbar @20°C
Vapour pressure at 50°C	: Not available
Density	: 1.1 g/cm³
Relative density	: > 1
Relative vapour density at 20°C	: Not available
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

Reacts with (strong) oxidizers.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). During fire, gases hazardous to health may be formed. 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 HS	
ATE CLP (oral)	> 2000 mg/kg
ATE CLP (dermal)	> 2000 mg/kg
ATE CLP (vapours)	> 20 mg/l
α,α-dimethylbenzyl hydroperoxide (80-15-9)	
LD50 oral	382 mg/kg
LC50 Inhalation - Rat [ppm]	220 ppm
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)
2-Phenylacetohydrazide (114-83-0)	
LD50 oral rat	310.2 mg/kg (OECD 425 method); Up and down procedure

Skin corrosion/irritation : Based on available data, the classification criteria are not met
pH: Not applicable
Serious eye damage/irritation : Causes serious eye irritation.
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	: May cause respiratory irritation.

methacrylic acid (79-41-4)	
STOT-single exposure	May cause respiratory irritation.
Methyl methacrylate (80-62-6)	
STOT-single exposure	May cause respiratory irritation.
2-Propenoic acid, 2-methyl-, 1-methyl-1,2-ethanediyl ester (7559-82-2)	
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 HS	
Viscosity, kinematic	> 20.5 mm ² /s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
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.

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

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

Persistence and degradability	Readily biodegradable, according to appropriate OECD test. (OECD 301B method).
Biodegradation	2 – 7 % 28 days

2-Phenylacetohydrazide (114-83-0)

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

12.3. Bioaccumulative potential

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

Bioconcentration factor (BCF REACH)	9.1 (OECD 305 method)
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2-Phenylacetohydrazide (114-83-0)

Log Pow

0.74 Quantitative structure-activity relationship (QSAR)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment**Thread Locking HS**

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

No additional information available

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.
Product/Packaging disposal recommendations	: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Additional information	: Dispose in accordance with all applicable regulations.
European List of Waste (LoW, EC 2000/532)	: 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

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(a)	Methyl methacrylate
3(b)	Thread Locking HS ; 2-hydroxypropyl methacrylate ; 2,2'-ethylenedioxydiethyl dimethacrylate ; [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate ; α,α -dimethylbenzyl hydroperoxide ; methacrylic acid ; 2-Phenylacetohydrazide ; 2-hydroxyethyl methacrylate ; Methyl methacrylate ; 2-Propenoic acid, 2-methyl-, 1-methyl-1,2-ethanediy ester
3(c)	Thread Locking HS ; α,α -dimethylbenzyl hydroperoxide ; 2-Phenylacetohydrazide ; 2-Propenoic acid, 2-methyl-, 1-methyl-1,2-ethanediy ester

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 92/85/EEC on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding as amended. 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. 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 2. Section 3. Composition/information on ingredients. SECTION 8. SECTION 12. Transport information. SECTION 15.

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
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
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
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

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.

Other information : 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 product information 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 product information sheet is not necessarily valid for the new made-up material.

Full text of H- and EUH-statements

Acute Tox. 2 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), 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
Flam. Liq. 2	Flammable liquids, Category 2
Self-react. C	Self-Reactive Substances and Mixtures, Type C
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
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
H225	Highly flammable liquid and vapour.
H242	Heating may cause a fire.
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]

Eye Irrit. 2	H319	Expert judgement
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

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Attachment to the Safety Data Sheet



Productname: Thread Locking HS

Ford Internal Ref.: 174256

Revision Date: 17.02.2025

Involved Products:

	Finiscode	Part Number	Packaging
1	1 461 313	6U7J M2G349 AA	5 ml