



SAFETY DATA SHEET

according to regulation (EU) No 2015/830

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

1.1. Product identifier

Trade name or designation of the mixture Thread Locking MS
Registration number -
Synonyms None.
SDS number 8050
Product code Ford Internal Ref.: 105871
Issue date 11-November-2014
Version number 3.0
Revision date 06-September-2016
Supersedes date 28-July-2016
Product use Professional use

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

Identified uses Sealers and Adhesives
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name Ford Motor Company Ltd.
Address Parts Distribution Centre
Royal Oak Way South
NN11 8NT Daventry, Northants
United Kingdom
Telephone number +44 1327 305 198
Address Ford-Werke GmbH
Edsel-Ford-Str. 2-14
50769 Köln
Germany
Telephone number +49 221 90-33333
E-mail sdseu@ford.com
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

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2'-phenylacetohydrazide, maleic acid, Tetramethylene dimethacrylate

Hazard pictograms



Signal word Warning

Hazard statements

H317 May cause an allergic skin reaction.
H411 Toxic 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.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Storage

None.

Disposal

None.

Supplemental label information None.

2.3. Other hazards The mixture contains no substance that fulfils the criteria of a PBT- or vPvB substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Tetramethylene dimethacrylate	25 - 50	2082-81-7 218-218-1	01-2119967415-30-XXXX	-	Note D
Classification:	Skin Sens. 1B;H317				
2,4,6-triallyloxy-1,3,5-triazine	2.5 - < 10	101-37-1 202-936-7	01-2119489756-17-XXXX	-	
Classification:	Acute Tox. 4;H302, Aquatic Chronic 2;H411				
2-[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	2.5 - < 5	94108-97-1 302-434-9	01-2119977121-41-XXXX	-	
Classification:	Eye Irrit. 2;H319, Aquatic Chronic 2;H411				
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylobis[12-hydroxyoctadecanamide]	0.25 - < 2.4	N/A 484-050-2	01-0000020228-74-0000	-	M (acute) = 10, M(chronic) = 10
Classification:	Aquatic Chronic 1;H410				
2'-phenylacetohydrazide	0.1 - < 1	114-83-0 204-055-3	-	-	
Classification:	Acute Tox. 3;H301, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, STOT SE 3;H335, Carc. 2;H351				
Cumene	0.1 - < 1	98-82-8 202-704-5	-	601-024-00-X	#, Note C, Seveso P5a, P5b, P5c, E2
Classification:	Flam. Liq. 3;H226, Asp. Tox. 1;H304, STOT SE 3;H335, Aquatic Chronic 2;H411				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Cumene hydroperoxide	0.1 - < 1	80-15-9 201-254-7	-	617-002-00-8	STOT SE 3; H335: C < 10%, Eye Dam. 1; H318: 3% ≤ C < 10%, Skin Corr. 1B; H314: C ≥ 10%, Skin Irrit. 2; H315: 3% ≤ C < 10%, Eye Irrit. 2; H319: 1% ≤ C < 3%, Seveso P6b, E2, H2
Classification:	Org. Perox. E;H242, Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Acute Tox. 3;H331, STOT RE 2;H373, Aquatic Chronic 2;H411				
maleic acid	0.1 - < 1	110-16-7 203-742-5	01-2119488705-25-XXXX	607-095-00-3	Skin Sens. 1; H317: C ≥ 0,1%, R43: C ≥ 0,1 %
Classification:	Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, STOT SE 3;H335				
1,4-naphthoquinone	0.01 - < 0.1	130-15-4 204-977-6	-	-	M (acute) = 10
Classification:	Acute Tox. 3;H301, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Acute Tox. 1;H330, STOT SE 3;H335, Aquatic Chronic 1;H410				

List of abbreviations and symbols that may be used above:

#: This substance has been assigned Community workplace exposure limit(s).

M: M-factor

Note: Regulation No. 1272/2008 - Annex VI

Composition comments The full text for all H-phrases is displayed in Section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Drink 1 or 2 glasses of water. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed May cause an allergic skin reaction. Dermatitis. Rash. Direct contact with eyes may cause temporary irritation. Prolonged skin contact may cause temporary irritation.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media Not available.

5.2. Special hazards arising from the substance or mixture	Dangerous fumes in case of fire: Carbonmonoxide(CO), Nitrous gases (NOx) Carbon dioxide (CO2).
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid contact with skin and eyes. Avoid breathing mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

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

6.3. Methods and material for containment and cleaning up The product is immiscible with water and will spread on the water surface.

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. Prevent product from entering drains. 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 to original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. 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.

7.2. Conditions for safe storage, including any incompatibilities Store in cool place. Store in original tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS). Keep away from food, drink and animal feeding stuffs.

Storage temperature: between 8 °C (46,4 °F) and 21 °C (69,8 °F).

7.3. Specific end use(s) Sealers and Adhesives

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Cumene (CAS 98-82-8)	STEL	375 mg/m3
		75 ppm
	TWA	125 mg/m3
		25 ppm

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
Cumene (CAS 98-82-8)	STEL	250 mg/m3
		50 ppm
	TWA	100 mg/m3

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU
Components Type Value

20 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Components	Type	Route	Value	Form
2,4,6-triallyloxy-1,3,5-triazine (CAS 101-37-1)	Professional	Dermal	1.5 mg/kg/BW/day	
Comments:	Long term exposure systemic effects	Inhalation	2.12 mg/m3	
Comments:	Long term exposure systemic effects	Inhalation	134.4 mg/m3	
Comments:	Short term exposure - systemic effects			
2-[[2,2-bis[[[1-(oxoallyl)oxy)methyl]butoxy]met hyl]-2-ethyl-1,3-propanediyl diacrylate (CAS 94108-97-1)	Professional	Dermal	1.67 mg/kg/BW/day	
Comments:	Long term exposure systemic effects	Inhalation	5.88 mg/m3	
Comments:	Long term exposure systemic effects	Dermal	0.55 mg/cm2	
Comments:	Short term exposure - systemic effects	Dermal	0.04 mg/cm2	
Comments:	Long term exposure - local effects	Dermal	58 mg/kg/BW/day	
Comments:	Short term exposure - systemic effects	Dermal	3.3 mg/kg/BW/day	
Comments:	Long term exposure systemic effects	Dermal	8.3 mg/kg/BW/day	
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]oct adecanamide and N,N'-1,2-alkandiybis[12-hydroxyoctadecana mide]	Consumer	Dermal	8.3 mg/kg/BW/day	
Comments:	Long term exposure systemic effects	Inhalation	2.9 mg/m3	
Comments:	Long term exposure systemic effects	Oral	8.3 mg/kg/BW/day	
Comments:	Long term exposure systemic effects	Dermal	14 mg/kg/BW/day	
Comments:	Long term exposure systemic effects	Inhalation	9.8 mg/m3	
Comments:	Long term exposure systemic effects	Dermal	2.5 mg/kg/BW/day	
Tetramethylene dimethacrylate (CAS 2082-81-7)	Consumer	Inhalation	4.3 mg/m3	
Comments:	Long term exposure systemic effects	Oral	2.5 mg/kg/BW/day	
Comments:	Long term exposure systemic effects	Dermal	4.2 mg/kg/BW/day	
Comments:	Long term exposure systemic effects	Inhalation	14.5 mg/m3	
Comments:	Long term exposure systemic effects			

Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
2,4,6-triallyloxy-1,3,5-triazine (CAS 101-37-1)	Not applicable	Freshwater	0.00705 mg/l	
Comments:	Feed (oral)	Oral	0.119 mg/kg	
		Seawater	0.0007 mg/l	

Components	Type	Route	Value	Form
		Sediment	0.1729 mg/kg	
Comments:	Freshwater			
		Sediment	0.01729 mg/kg	
Comments:	Seawater			
		Soil	0.057 mg/kg	
		STP	10 mg/l	
		Water	0.0705 mg/l	
Comments:	Intermittent release			
2-[[2,2-bis[[[1-oxoallyl]oxy)methyl]butoxy]met	Not applicable	Sediment	0.493 mg/kg	
hyl]-2-ethyl-1,3-propanediyl diacrylate (CAS				
94108-97-1)				
Comments:	Freshwater			
		Sediment	0.0493 mg/kg	
Comments:	Seawater			
		Soil	0.098 mg/kg	
		STP	100 mg/l	
		Water	0.012 mg/l	
Comments:	Intermittent release			
		Water	0.0012 mg/l	
Comments:	Freshwater			
		Water	0.00012 mg/l	
Comments:	Seawater			
maleic acid (CAS 110-16-7)	Not applicable	Not applicable	74.4 µg/l	
Comments:	Freshwater			
		Sediment	0.0624 µg/g	
		STP	3.33 mg/l	
		Water	0.744 mg/l	
Comments:	Intermittent release			
Reaction mass of	Not applicable	Not applicable	33.33 mg/kg	
12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]oct				
adecanoic acid; 2-[(1-oxooctyl)amino]alkyl]oct				
adecanamide and				
N,N'-1,2-alkandiylbis[12-hydroxyoctadecana				
mide]				
Comments:	Feed (oral)			
		Not applicable	0.000146 mg/l	
Comments:	Freshwater			
		Not applicable	0.0000146 mg/l	
Comments:	Seawater			
		Sediment	55.54 mg/kg	
Comments:	Freshwater			
		Sediment	5.554 mg/kg	
Comments:	Seawater			
		Soil	66.576 mg/kg	
		STP	10 mg/l	
		Water	0.00025 mg/l	
Comments:	Intermittent release			
Tetramethylene dimethacrylate (CAS	Not applicable	Freshwater	0.087 mg/l	
2082-81-7)				
		Seawater	0.0087 mg/l	
		Sediment	3.12 mg/kg	
Comments:	Freshwater			
		Sediment	0.312 mg/kg	
Comments:	Seawater			
		Soil	0.573 mg/kg	
		STP	20 mg/l	
		Water	0.0979 mg/l	
Comments:	Intermittent release			

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.
Individual protection measures, such as personal protective equipment	
General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Nitrile rubber Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product. Hand protection in case of splash contact: Nitrile rubber Glove thickness 0,4 mm. Break through time >= 480 min. Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product. The protective gloves to be used must comply with the specification of EU directive 89/686/EC and the resultant standard EN374. The above given information is based on laboratory test in line with EN374. 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.
- Other	Wear appropriate chemical resistant clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge. Filter A (organic gases and vapours) to standard DIN EN 141.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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. Contaminated work clothing should not be allowed out of the workplace.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Blue
Odour	Characteristic
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 70 °C (> 158 °F)
Flash point	> 110.0 °C (> 230.0 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	< 300 mbar @ 50 °C (122 °F) 1.7 mbar @ 25 °C (77 °F)

Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Solubility (other)	Acetone Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information

Density	1.15 - 1.20 g/cm ³
VOC (EU)	< 3 %
VOC (CH)	< 3 %

SECTION 10: Stability and reactivity

10.1. Reactivity	Peroxide.
10.2. Chemical stability	Stable at normal conditions.
10.3. Possibility of hazardous reactions	Peroxides.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Peroxides.
10.6. Hazardous decomposition products	Carbon oxides.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause irritation of the gastrointestinal tract.

Symptoms May cause an allergic skin reaction. Dermatitis. Rash.

11.1. Information on toxicological effects

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

Product	Species	Test results
Thread Locking MS		
<u>Acute</u>		
Oral		> 5000 mg/kg (calcd. ATE)
Components	Species	Test results
2,4,6-triallyloxy-1,3,5-triazine (CAS 101-37-1)		
<u>Acute</u>		
Oral		
LD50	Rat	753 mg/kg (OECD 401)
2'-phenylacetohydrazide (CAS 114-83-0)		
<u>Acute</u>		
Oral		100 mg/kg (acc.CLP 3.1.2)
Cumene hydroperoxide (CAS 80-15-9)		
<u>Acute</u>		
Dermal		1100 mg/kg (acc.CLP 3.1.2)

Components	Species	Test results
Inhalation Vapour		3 mg/l/4h (acc.CLP 3.1.2)
Oral LD50	Rat	550 mg/kg
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory sensitisation	Based on available data, the classification criteria are not met.	
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.	
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
Mixture versus substance information	No information available.	
Other information	Not available.	

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Components	Species	Test results
1,4-naphthoquinone (CAS 130-15-4)		
Algae	EC50	Dunaliella bioculata
		0.011 mg/l, 72 hours (OECD 201)
2,4,6-triallyloxy-1,3,5-triazine (CAS 101-37-1)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna
		19.4 mg/l, 48 hours (OECD 202)
Fish	LC50	Oncorhynchus mykiss
		4.36 mg/l, 96 hours (OECD 203)
2-[[2,2-bis[[[(1-oxoallyl)oxy)methyl]butoxy)methyl]-2-ethyl-1,3-propanediyl diacrylate (CAS 94108-97-1)		
<i>Acute</i>		
Other	EC50	Pseudokirchnerella subcapitata
		> 12 mg/l, 72 hours (OECD 201)
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna
		> 10 mg/l, 48 hours (OECD 202)
Fish	LC50	Cyprinus carpio
		1.2 mg/l, 96 hours (OECD 203)
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiyldis[12-hydroxyoctadecanamide]		
Aquatic		
<i>Acute</i>		
Algae	EC50	Algae
		0.025 mg/l, 72 hours (OECD 201)
<i>Chronic</i>		
Algae	NOEC	Algae
		0.0073 mg/l, 72 hours (OECD 201)
Crustacea	NOEC	Daphnia magna
		> 0.024 mg/l, 48 hours (OECD 202)
Fish	NOEC	Cyprinus carpio
		> 0.024 mg/l, 96 hours (OECD 203)

12.2. Persistence and degradability Not expected to be rapidly biodegradable.

Biodegradability

Percent degradation (Aerobic biodegradation)

2,4,6-triallyloxy-1,3,5-triazine 7 - 9 % (OECD 301 B)
Test Duration: 28 days

Biodegradability

Percent degradation (Aerobic biodegradation)

2-[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	4 - 14 % (OECD 301 B) Test Duration: 28 days
Reaction mass of	7 %
12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamid	
ϕ2-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamid	
e and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]	

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

2,4,6-triallyloxy-1,3,5-triazine	2.8
2-[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	4.14, @ 30 °C (OECD 117)

12.4. Mobility in soil

Hardened adhesives are immobile.

12.5. Results of PBT and vPvB assessment

The mixture contains no substance that fulfils the criteria of a PBT- or vPvB substance.

12.6. 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

Residual waste

Dispose of in accordance with local regulations. 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).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

EU waste code

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

08 04 09
15 01 10

Disposal methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions

Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]; 2,4,6-triallyloxy-1,3,5-triazine)
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Hazard No. (ADR)	90
Tunnel restriction code	E
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Classification code	M6
Special provisions	274,335,601

IATA

14.1. UN number	UN3082
14.2. UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]; 2,4,6-triallyloxy-1,3,5-triazine)

14.3. Transport hazard class(es)

Class 9

Subsidiary risk -

14.4. Packing group III

Packaging instructions 964

Packaging instructions 964

cargo only

14.5. Environmental hazards Yes

ERG Code 9L

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

for user

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

Maximum net quantity packaging - Passenger 450 L

and cargo aircraft

Maximum net quantity packaging cargo only 450 L

Maximum net quantity packaging - Limited 30.00 kg

quantity

Special provisions A97,A158

IMDG

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylobis[12-hydroxyoctadecanamide]; 2,4,6-triallyloxy-1,3,5-triazine), Marine pollutant

14.3. Transport hazard class(es)

Class 9

Subsidiary risk -

14.4. Packing group III

14.5. Environmental hazards

Marine pollutant Yes

EmS F-A, S-F

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

for user

Special provisions 274,335

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established. Not available.

Code

Code

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Not applicable.

Restrictions on use

Not applicable.

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 2015/830.**Other EU regulations** Category: 9 b**Directive 94/33/EC on the protection of young people at work, as amended**

1,4-naphthoquinone (CAS 130-15-4)

2'-phenylacetohydrazide (CAS 114-83-0)

Cumene hydroperoxide (CAS 80-15-9)

maleic acid (CAS 110-16-7)

Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide,

12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylobis[12-hydroxyoctadecanamide] (CAS N/A)

Tetramethylene dimethacrylate (CAS 2082-81-7)

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

Cumene (CAS 98-82-8)
Cumene hydroperoxide (CAS 80-15-9)
maleic acid (CAS 110-16-7)
Tetramethylene dimethacrylate (CAS 2082-81-7)

VOC (EU): < 3 %

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not applicable

National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

AC: Article category.
acc., acc.to: according, according to.
ACGIH: American Conference of Governmental Industrial Hygienists.
AFNOR: French Institute for Standards (Association Française de Normalisation).
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route).
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
AICS: Australian Inventory of Chemical Substances.
ANSI: American National Standards Institute.
AOEL: Acceptable Operator Exposure Level.
AOX: adsorbable organic halogen compounds.
approx.: approximately.
ASTM: ASTM International.
ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
BAM: Federal Institute for Materials Research and Testing, Germany (Bundesanstalt für Materialforschung und -prüfung).
Maximum permissible concentration of biological working substances (BAT: Biologische Arbeitsstofftoleranzwerte).
BAuA: Federal Institute for Occupational Health and Safety, Germany (Bundesanstalt für Arbeitsschutz und Arbeitsmedizin).
BCF: Bio-concentration factor.
BET: Brunauer-Emmett-Teller.
BLV: Biological Limit Value.
BLV: Biological Limit Value (BGW: Biologischer Grenzwert, Austria).
BMGV: Biological Monitoring Guidance Value (EH40,UK).
BSI: British Standards Institution.
BS: British Standard.
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 (Comité Européen de Normalisation).
CESIO: European Committee on Organic Surfactants and their Intermediates (Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques).
ChemRRV: Ordinance on the risk reduction related to chemical products (ChemRRV: Chemikalien-Risikoreduktions-verordnung, Switzerland).
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction.
CNS: Central Nervous System.
CNT: Carbon nanotubes.
COD: Chemical Oxygen Demand.
CSA: Chemical Safety Assessment.
CSR: Chemical Safety Report.
DETEC: Swiss Federal Department of the Environment, Transport, Energy and Communications.
DIN: German Standards Institute / German industrial norm (Deutsches Institut für Normung / Deutsche Industrienorm).
DMEL: Derived Minimum Effect Level.

DNEL: Derived No Effect Level.
 DOC: Dissolved organic carbon.
 DPD: Directive 1999-45-EC / Dangerous Preparations Directive.
 DSD: Directive 67/548-EC / Dangerous Substances Directive.
 DSL: Canada, Domestic Substances List.
 DU: Downstream User.
 dw: dry weight.
 e.g.: For example, for instance.
 EBW: Exposure Based Waiving.
 EC: European Community.
 EC50: Effective Concentration 50%.
 ECHA: European Chemical Agency.
 EINECS: European Inventory of Existing Commercial Chemical Substances.
 ELINCS: European List of Notified Chemical Substances.
 EN: European norm.
 ENCS: Japan, Inventory of Existing and New Chemical Substances.
 EPA: United States Environmental Protection Agency.
 ERC: Environmental release category.
 ES: Exposure scenario.
 EUSES: European Union System for the Evaluation of Substances.
 EWC/EWL: European Waste Catalogue.
 GCL: General concentration limit.
 gen.: general.
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
 GLP: Good Laboratory Practice.
 GW/VL: Occupational exposure limit value.
 GW-kw: Occupational exposure limit value - short term.
 GW-M/VL-M: Occupational exposure limit value – "Ceiling".
 GWP: Global Warming Potential.
 HPV: High Production Volume Chemicals.
 HEPA: High Efficiency Particulate Air.
 IARC: International Agency for Research on Cancer.
 IATA: International Air Transport Association.
 IBC: Intermediate Bulk Container.
 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 Code: International Maritime Dangerous Goods Code.
 IMO: International Maritime Organization.
 incl.: including, inclusive.
 ISO: International Standards Organization.
 IUCLID: International Uniform Chemical Information Database.
 IUPAC: International Union for Pure Applied Chemistry.
 KECI: Korea Existing Chemicals Inventory.
 LCA: Life Cycle Assessment.
 LC: Lethal Concentration.
 LC50: Lethal Concentration 50%.
 LCLo: Lowest published lethal concentration.
 LD50: Lethal Dose 50%.
 LEV: Local exhaust ventilation.
 LOAEL: Lowest observed adverse effect level.
 LOEC: Lowest observable effect concentration.
 LOEL: Lowest observable effect level.
 LPV: Low Production Volume Chemicals.
 LQ: Limited Quantities.
 Air Quality Control Regulation (LRV: Luftreinhalteverordnung, Switzerland).
 TLV-STEL: Threshold limit value - Short-term exposure limit / Technical reference concentration - short-time value (TRK-Kzw = Technische Richtkonzentration - Kurzzeitwert).
 Maximum allowable workplace concentration – instantaneous value (MAK-Mow: Maximale Arbeitsplatzkonzentration – Momentanwert, Austria)
 Maximum allowable workplace concentration – daily mean value / Technical standard concentration – daily mean value (MAK-Tmw, TRK-Tmw : Maximale Arbeitsplatzkonzentration - Tagesmittelwert / TRK-Tmw = Technische Richtkonzentration – Tagesmittelwert, Austria).
 MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).
 MARPOL: International Convention for the Prevention of Pollution From Ships.
 MTD: Maximum tolerated dose.

MWCNT: Multi-walled carbon nanotubes.
n.a.: not applicable.
N/A: Not available.
n.d.: not determined.
NLP: No Longer Polymers.
NDSL: Canada, Non-Domestic Substances List.
NF: French Norm (See AFNOR).
NFPA: National Fire Protection Association.
NIOSH: National Institute for Occupational Safety & Health.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No observed adverse effect level.
NOEC: No observed effect concentration.
NOEL: No observed effect level.
NTP: National Toxicology Program.
NZIoC: New Zealand Inventory of Chemicals.
ODP: Ozone Depletion Potential.
OECD: Organization for Economic Cooperation and Development.
OEL: Occupational Exposure Limit.
org.: organic.
OSHA: Occupational Safety & Health Administration.
PAH: Polycyclic Aromatic Hydrocarbons.
PBT: Persistent, bioaccumulative, toxic.
PC: Product category.
PE: Polyethylene.
PEC: Predicted Environmental Concentration.
PEL: Permissible Exposure Limit.
PIC: Prior Informed Consent.
PICCS: Philippines Inventory of Commercial Chemical Substances.
PNEC: Predicted No Effect Concentration.
POCP: Photochemical ozone creation potential (Photochemisches Ozonbildungspotenzial).
POP: Persistent Organic Pollutant.
PPORD: Product and Process Oriented Research and Development.
PPE: Personal Protective Equipment.
PROC: Process category.
RA: Risk Assessment.
RAR: Risk Assessment Report.
RCRA: Resource Conservation Recovery Act.
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 (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).
RMM: Risk Management Measure.
RTECS: Registry of Toxic Effects of Chemical Substances.
QSAR: Quantitative Structure Activity Relation.
SARA: Superfund Amendments and Reauthorization Act.
SADT: Self-Accelerating Decomposition Temperature.
SCL: Specific concentration limit.
SEA: socio economic analysis.
STEL: Short-term Exposure Limit.
STP: Sewage treatment plant.
SU: Sector of use.
SVHC: Substance of Very High Concern.
SWCNT: single-walled carbon nanotubes.
ThOD: Theoretical oxygen demand.
TOC: Total Organic Carbon.
TLV: Threshold Limit Value.
TRA: Targeted Risk Assessment.
TSCA: Toxic Substance Control Act.
TWA: Time Weighted Average.
UC: Use category.
UDS: Use descriptor system.
UEC: Use and exposure categories.
UN: United Nations.
UN RTDG: United Nations Recommendations on the Transport of Dangerous Goods.
UVCB: Unknown or Variable Composition, Complex Reaction Products, and Biological Materials.
Regulation on combustible liquids (VbF: Verordnung über brennbare Flüssigkeiten, Austria).

Regulation of the Austria Minister for Labor and Social Affairs regarding health surveillance at the workplace (VGÜ = Verordnung des Bundesministers für Arbeit und Soziales über die Gesundheitsüberwachung am Arbeitsplatz).

VOC: Volatile organic compounds.

vPvB: very Persistent, 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).

WoE: Weight of evidence.

WHMIS: Workplace Hazardous Materials Information System.

WHO: World Health Organization.

wwt: wet weight.

Not available.

References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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.

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.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Revision information

Product and Company Identification: Product and Company Identification

SECTION 2: Hazards identification: Disposal

Composition / Information on Ingredients: Ingredient Classification

Training information

Follow training instructions when handling this material.

Disclaimer

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

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Print Date: 06.09.2016

Involved Products:

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