

# FLANGE SEALANT - ANAEROBIC LR-2



## SAFETY DATA SHEET

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

ISSUE DATE: 22.05.2018  
REVISION DATE: 19.01.2024  
SUPERSEDES: 13.06.2023  
VERSION: 2.2

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Flange Sealant - Anaerobic LR-2  
Product code : Ford Internal Ref.: 199752  
SDS Number : 2996  
UFI : CM6U-WJKY-W00R-EAND  
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

<b>Health hazards</b>	Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
	Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
	Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation.
<b>Environmental hazards</b>	Hazardous to the aquatic environment – Chronic Hazard, Category 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-hydroxyethyl methacrylate; 2-Phenylacetohydrazide; [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate; 3,3,5-trimethylcyclohexyl methacrylate

### Hazard statements

H315	Causes skin irritation.
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.

#### Response

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation 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-hydroxy-3-phenoxypropyl methacrylate	16926-87-7 240-994-5 -	10 - < 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	
2-hydroxyethyl methacrylate	868-77-9 212-782-2 607-124-00-X 01-2119490169-29-XXXX	5 - < 10	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317	(Note D)
3,3,5-trimethylcyclohexyl methacrylate	7779-31-9 - 01-2120748527-45-XXXX	5 - < 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Chronic 2, H411	(10 ≤ C ≤ 100) STOT SE 3, H335
acrylic acid	79-10-7 201-177-9 607-061-00-8	0,1 - < 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg)	(1 ≤ C ≤ 100) STOT SE 3, H335 #

	01-2119452449-31-XXXX		bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1.0) Aquatic Chronic 2, H411	(Note D)
2-Phenylacetohydrazide	114-83-0 204-055-3 -	0,1 - < 1	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335	
[2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6 244-096-4 - 01-2120137902-58-XXXX	0,1 - < 1	Eye Dam. 1, H318 Skin Sens. 1, H317	
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-Carboxyethyl acrylate	24615-84-7 246-359-9	0,1 - < 1	Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411	
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 601-096-00-2 01-2119529223-47-XXXX	0,1 - < 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1.0) 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.

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 occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : 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 : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
- Symptoms/effects after skin contact : 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 : Dry powder. Foam. Carbon dioxide.
- 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 : During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.

#### 5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : Cool closed containers exposed to fire with water spray.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

##### 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".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- Methods for cleaning up : Large Spills: Stop leak without risks if possible. Dike the spilled material, where this is possible. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Clean preferably with a detergent - Avoid the use of solvents. Small spills: Wipe up with absorbent material (for example cloth). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

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

### 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 dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : 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.  
Storage temperature : 10 – 25 °C

## 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

##### acrylic acid (79-10-7)

##### EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Acrylic acid; Prop-2-enoic acid
IOEL TWA	29 mg/m <sup>3</sup> 10 ppm
IOEL STEL	59 mg/m <sup>3</sup> (10) 20 ppm (10)
Remark	(10) Grenzwert für die Kurzzeitexposition für einen Bezugszeitraum von einer Minute.
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

##### United Kingdom - Occupational Exposure Limits

Local name	Acrylic acid (Prop-2-enoic acid)
WEL TWA (OEL TWA)	29 mg/m <sup>3</sup> 10 ppm
WEL STEL (OEL STEL)	59 mg/m <sup>3</sup> STEL in relation to a 1-minute reference period 20 ppm STEL in relation to a 1-minute reference period
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

##### methacrylic acid (79-41-4)

##### United Kingdom - Occupational Exposure Limits

Local name	Methacrylic acid
WEL TWA (OEL TWA)	72 mg/m <sup>3</sup> 20 ppm
WEL STEL (OEL STEL)	143 mg/m <sup>3</sup> 40 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

##### acrylic acid (79-10-7)

##### DNEL/DMEL (Workers)

Acute - local effects, dermal	1 mg/cm <sup>2</sup>
Acute - local effects, inhalation	30 mg/m <sup>3</sup>
Long-term - local effects, inhalation	30 mg/m <sup>3</sup>

**DNEL/DMEL (General population)**

Acute - local effects, dermal	1 mg/cm <sup>2</sup>
Acute - local effects, inhalation	3.6 mg/m <sup>3</sup>
Long-term - local effects, inhalation	3.6 mg/m <sup>3</sup>

**PNEC (Water)**

PNEC aqua (freshwater)	0.003 mg/l
PNEC aqua (marine water)	0.3 µg/L
PNEC aqua (intermittent, freshwater)	0.001 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 mg/kg dwt
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**PNEC (Oral)**

PNEC oral (secondary poisoning)	0.03 g/kg food
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**PNEC (STP)**

PNEC sewage treatment plant	0.9 mg/l
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**2-hydroxyethyl methacrylate (868-77-9)**

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**DNEL/DMEL (Workers)**

Long-term - systemic effects, dermal	1.3 mg/kg bw/day
Long-term - systemic effects, inhalation	4.9 mg/m <sup>3</sup>

**DNEL/DMEL (General population)**

Long-term - systemic effects, oral	0.83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.9 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0.83 mg/kg bodyweight/day

**PNEC (Water)**

PNEC aqua (freshwater)	0.482 mg/l
PNEC aqua (marine water)	0.482 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC aqua (intermittent, marine water)	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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**methacrylic acid (79-41-4)**

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**DNEL/DMEL (Workers)**

Acute - local effects, dermal	1 mg/cm <sup>2</sup>
Long-term - systemic effects, dermal	4.25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	29.6 mg/m <sup>3</sup>

### DNEL/DMEL (General population)

Acute - local effects, inhalation	3.6 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	2.55 mg/kg bodyweight/day
Long-term - local effects, inhalation	6.55 mg/m <sup>3</sup>

### 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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### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear security glasses which protect from splashes. EN 166.

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing.

##### Hand protection:

Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent). The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other

Material	Permeation	Thickness (mm)	Comments
Viton	6 (> 480 minutes)	0,7 mm	Glove recommendation: Vitoject® 890 (Kächele-Cama GmbH, source of supply see <a href="http://www.kcl.de">www.kcl.de</a> ) or comparable product.
In case of splash contact: Viton	6 (> 480 minutes)	0,7 mm	Glove recommendation: Vitoject® 890 (Kächele-Cama GmbH, source of supply see <a href="http://www.kcl.de">www.kcl.de</a> ) or comparable product.

#### 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. If the occupational exposure limit is exceeded: Type A - High-boiling (>65 °C) organic compounds

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Red.
Appearance	: Liquid.
Odour	: mild . Acrylates.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: < -30 °C
Boiling point	: > 150 °C
Flammability	: Not applicable
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: > 100 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not applicable.
Viscosity, kinematic	: > 20.5 mm <sup>2</sup> /s @ 40°C
Viscosity, dynamic	: < 1100 Pa·s LCT STM 738
Solubility	: Slightly soluble.
Log Kow	: Not available
Vapour pressure	: < 0.13 mbar @ 20°C
Vapour pressure at 50°C	: < 300 mbar
Density	: 1.1 g/cm <sup>3</sup> @ 20°C
Relative density	: > 1 @ 20°C
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

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

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



## 10.5. Incompatible materials

Reducing agents. Strong acids. Strong oxidizers.

## 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Sulphur oxides. Thermal decomposition can lead to the release of irritating gases and vapours.

## 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

<b>Flange Sealant - Anaerobic LR-2</b>	
ATE CLP (oral)	> 2000 mg/kg
ATE CLP (dermal)	> 2000 mg/kg
ATE CLP (vapours)	> 20 mg/l
<b>methacrylic acid (79-41-4)</b>	
LD50 oral rat	1320 mg/kg bodyweight
LD50 dermal rabbit	500 – < 1000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	3.61 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation. 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.
<b>acrylic acid (79-10-7)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>2-Phenylacetohydrazide (114-83-0)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>methacrylic acid (79-41-4)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>2-hydroxy-3-phenoxypropyl methacrylate (16926-87-7)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>3,3,5-trimethylcyclohexyl methacrylate (7779-31-9)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>2-Carboxyethyl acrylate (24615-84-7)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Based on available data, the classification criteria are not met
Aspiration hazard	: Based on available data, the classification criteria are not met
<b>Flange Sealant - Anaerobic LR-2</b>	
Viscosity, kinematic	> 20.5 mm <sup>2</sup> /s @ 40°C

### 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.

#### acrylic acid (79-10-7)

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LC50 - Fish [1]	27 mg/l
EC50 - Crustacea [1]	47 mg/l Daphnia magna
EC50 72h - Algae [1]	0.13 mg/l Scenedesmus subspicatus
NOEC chronic fish	10.1 mg/l
NOEC chronic crustacea	19 mg/l Daphnia magna

### 12.2. Persistence and degradability

#### Flange Sealant - Anaerobic LR-2

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Persistence and degradability	Not biodegradable.
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### 12.3. Bioaccumulative potential

#### Flange Sealant - Anaerobic LR-2

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Bioaccumulative potential	No data available.
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### 12.4. Mobility in soil

#### Flange Sealant - Anaerobic LR-2

Ecology - soil	Hardened adhesives are immobile.
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### 12.5. Results of PBT and vPvB assessment

#### Flange Sealant - Anaerobic LR-2

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
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## 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).
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 this material to drain into sewers/water supplies.
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.

: 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)	acrylic acid ; (R)-p-mentha-1,8-diene
3(b)	Flange Sealant - Anaerobic LR-2 ; acrylic acid ; 2-hydroxyethyl methacrylate ; 2-Phenylacetohydrazide ; [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate ; methacrylic acid ; 2-hydroxy-3-phenoxypropyl methacrylate ; 3,3,5-trimethylcyclohexyl methacrylate ; (R)-p-mentha-1,8-diene
3(c)	Flange Sealant - Anaerobic LR-2 ; acrylic acid ; 3,3,5-trimethylcyclohexyl methacrylate ; (R)-p-mentha-1,8-diene
40.	acrylic acid ; (R)-p-mentha-1,8-diene

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 is applicable. 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 1. UFI.

### 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
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
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
OECD	Organisation for Economic Co-operation and Development
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
vPvB	Very Persistent and Very Bioaccumulative
OEL	Occupational Exposure Limit
RRN	REACH Registration no.
CAO	Cargo Aircraft Only
VOC	Volatile organic compounds

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.

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

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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
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. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B

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

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

**Product Name:** Flange Sealant - Anaerobic LR-2

**Ford Int. Ref. No.:** 199752

**Revision Date:** 19.01.2024

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### Involved Products:

Finiscode	Part number	Container Size:
1 2 288 303	2U7J M2G348 BA	65 ml