FLANGE SEALANT - ANAEROBIC LP-IMP

SAFETY DATA SHEET

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

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VERSION: 1.0

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	Flange Sealant - Anaerobic LP-IMP
Product code	:	Ford Internal Ref.: 509241
SDS Number	:	11091
UFI	:	HVED-QHT8-300F-49FJ
Product use	:	Professional use

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

1.2.1. Relevant identified uses

Function or use category	:	Adhesives, sealants

1.2.2. Uses advised against

Restrictions on use	:	None known

1.3. Details of the supplier of the safety data sheet

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

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

1.4. Emergency telephone number

+49 (0) 6132-84463 (GBK GmbH – 24/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Health hazards	Skin 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.
	Reproductive toxicity, Category 2	H361d	Suspected of damaging the unborn child.
	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-hydroxyethyl methacrylate; 2-phenoxyethyl acrylate; 2-phenoxyethyl methacrylate; α,α-dimethylbenzyl hydroperoxide

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P201	Obtain special instructions before use.
P261	Avoid breathing vapours, mist.
P273	Avoid release to the environment.
P280	Wear protective gloves, eye protection.

Response

P308+P313	IF exposed or concerned: 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 is 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
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3 231-403-1 01-2119886505-27-XXXX	10 – 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	(0 ≤C < 10) 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)
2-phenoxyethyl acrylate	48145-04-6 256-360-6 01-2119980532-35-XXXX	5 - < 10	Skin Sens. 1A, H317 Repr. 2, H361d Aquatic Chronic 2, H411	
2-phenoxyethyl methacrylate	10595-06-9 234-201-1 01-2120752383-55-XXXX	5 - < 10	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	

α,α-dimethylbenzyl hydroperoxide	80-15-9 201-254-7 617-002-00-8 01-2119475796-19-XXXX	1 – 2.5	Org. Perox. E, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Dermal), H310 (ATE=1100 mg/kg bodyweight) Acute Tox. 1 (Inhalation:vapour), H330 (ATE=0.05 mg/l/4h) Skin Corr. 1B, H314 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 2, H411	(0 <C < 10) STOT SE 3, H335 (1 ≤C < 3) Eye Irrit. 2, H319 (3 ≤C < 10) Skin Irrit. 2, H315 (3 ≤C < 10) Eye Dam. 1, H318 (10 ≤C < 100) Skin Corr. 1B, H314
acrylic acid	79-10-7 201-177-9 607-061-00-8 01-2119452449-31-XXXX	0,1 - < 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg 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	(1 ≤C ≤ 100) STOT SE 3, H335 # (Note D)
[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	
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-hydroxypropyl methacrylate	27813-02-1 248-666-3 - 01-2119490226-37-XXXX	0,1 - < 1	Eye Irrit. 2, H319 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)
Phenol, ethoxylated, esters with acrylic acid	56641-05-5 500-133-9	0.1 – 1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	
1,4-naphthoquinone	130-15-4 204-977-6 -	0,01 - < 0,1	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 1 (Inhalation), H330 (ATE=0.005 mg/l/4h)	

			Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410	

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

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash 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. Obtain medical attention.

First-aid measures after ingestion : Rinse mouth out with water. Drink 1 or 2 glasses of water. Do not induce vomiting. Obtain medical attention.

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

Symptoms/effects: : Suspected of damaging the unborn child.

Symptoms/effects after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).

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

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : On ingestion in large quantities: Abdominal pain, Diarrhea.

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 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, CO2). Nitrogen oxides.

5.3. Advice for firefighters

Precautionary measures fire : Do not breathe fumes. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Firefighting instructions : Use standard firefighting procedures and consider the hazards of other involved materials.

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

Other information : Prevent fire fighting water from entering the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures	:	Ventilate spillage area. 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".
Emergency procedures	:	Keep unnecessary personnel away.

6.2. Environmental precautions

Avoid release to the environment. 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

Methods for cleaning up	:	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 with earth, sand or other non-combustible material and transfer to containers for later disposal. Following product recovery, flush area with water. Small spills: Wipe up with absorbent material (for example cloth). Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Ensure good ventilation of the work station. Do not breathe vapours, mist. 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 tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

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/m³
IOEL TWA [ppm]	10 ppm
IOEL STEL	59 mg/m³
IOEL STEL [ppm]	20 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

United Kingdom - Occupational Exposure Limits

Local name	Acrylic acid (Prop-2-enoic acid)
WEL TWA (OEL TWA) [1]	29 mg/m³
WEL TWA (OEL TWA) [2]	10 ppm
WEL STEL (OEL STEL)	59 mg/m³ STEL in relation to a 1-minute reference period
WEL STEL	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) [1]	72 mg/m³
WEL TWA (OEL TWA) [2]	20 ppm
WEL STEL (OEL STEL)	143 mg/m³
WEL STEL	40 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

Monitoring methods

Monitoring methods	Follow standard monitoring procedures.

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.35 mg/kg bw/day
Long-term - systemic effects, inhalation	1.22 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.21 mg/kg bw/day
Long-term - systemic effects, inhalation	0.36 mg/m³
Long-term - systemic effects, dermal	0.21 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	2.33 µg/L
PNEC aqua (marine water)	0.233 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	1.2 mg/kg dwt
PNEC sediment (marine water)	0.12 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.239 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	2.45 mg/l

2-hydroxyethyl methacrylate (868-77-9)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1.3 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	2.9 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)	0.482 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

PNEC (STP)

PNEC sewage treatment plant	10 mg/l

2-phenoxyethyl acrylate (48145-04-6)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	3.5 mg/kg bw/day
Long-term - systemic effects, inhalation	12 mg/m³
Long-term - local effects, inhalation	77 mg/m³

PNEC (Water)

PNEC aqua (freshwater)	2 µg/L
PNEC aqua (marine water)	0.2 µg/L

PNEC (Sediment)

PNEC sediment (freshwater)	0.02 mg/kg dwt
PNEC sediment (marine water)	0.002 mg/kg dwt

PNEC (Soil)

PNEC soil	0.006 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant	1.77 mg/l

2-phenoxyethyl methacrylate (10595-06-9)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	3.5 mg/kg bw/day
Long-term - systemic effects, inhalation	12 mg/m³
Long-term - local effects, inhalation	84 mg/m³

PNEC (Water)

PNEC aqua (freshwater)	14.2 µg/L
PNEC aqua (marine water)	1.42 µg/L

PNEC (Sediment)

PNEC sediment (freshwater)	0.665 mg/kg dwt
PNEC sediment (marine water)	0.067 mg/kg dwt

PNEC (Soil)

PNEC soil	0.125 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant	1.77 mg/l

acrylic acid (79-10-7)

DNEL/DMEL (Workers)	
Acute - local effects, dermal	1 mg/cm²
Acute - local effects, inhalation	30 mg/m³
Long-term - local effects, inhalation	30 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, dermal	1 mg/cm²
Acute - local effects, inhalation	3.6 mg/m³
Long-term - local effects, inhalation	3.6 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.003 mg/l
PNEC aqua (marine water)	0 mg/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
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.03 g/kg food
PNEC (STP)	
PNEC sewage treatment plant	0.9 mg/l

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	8.8 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

methacrylic acid (79-41-4)

DNEL/DMEL (Workers)

Acute - local effects, dermal	1 mg/cm²
Long-term - systemic effects, dermal	4.25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	29.6 mg/m³

DNEL/DMEL (General population)

Acute - local effects, inhalation	3.6 mg/m³
Long-term - systemic effects, dermal	2.55 mg/kg bodyweight/day
Long-term - local effects, inhalation	6.55 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

PNEC (STP)

PNEC sewage treatment plant	10 mg/l

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

8.2.2.1. Eye and face protection

Eye protection:
Safety glasses. EN 166.

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Protective gloves. 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	EN ISO 374 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	EN ISO 374 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. Type A - High-boiling (>65 °C) organic compounds

8.2.2.4. Thermal hazards

Thermal hazard protection:

Wear appropriate thermal protective clothing, when necessary.

8.2.3. Environmental exposure controls

Environmental exposure controls:

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

Consumer exposure controls:

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.

Other information:

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Red.
Appearance	:	gel.
Odour	:	acrylic.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	< -30 °C
Boiling point	:	> 100 °C
Flammability	:	Not available
Explosive limits	:	Not available
Lower explosive limit (LEL)	:	Not available
Upper explosive limit (UEL)	:	Not available
Flash point	:	> 93 °C (closed cup)
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	> 20.5 mm²/s
Solubility	:	Water: Insoluble Acetone: Soluble
Log Kow	:	Not available
Vapour pressure	:	< 1 hPa
Vapour pressure at 50°C	:	Not available
Density	:	1.13 g/cm³
Relative density	:	Not available
Relative vapour density at 20°C	:	> 1
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle aggregation state	:	Not applicable
Particle agglomeration state	:	Not applicable
Particle specific surface area	:	Not applicable
Particle dustiness	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : < 3 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and 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

Contact with incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

During fire, gases hazardous to health may be formed.

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

Flange Sealant - Anaerobic LP-IMP	
ATE CLP (oral)	> 5000 mg/kg
ATE CLP (dermal)	> 5000 mg/kg
ATE CLP (vapours)	> 20 mg/l/4h

acrylic acid (79-10-7)	
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (vapours)	11 mg/l/4h

2-Phenylacetohydrazide (114-83-0)	
ATE CLP (oral)	100 mg/kg bodyweight

methacrylic acid (79-41-4)	
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h

1,4-naphthoquinone (130-15-4)	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (gases)	10 ppmv/4h
ATE CLP (vapours)	0.05 mg/l/4h
ATE CLP (dust,mist)	0.005 mg/l/4h

α,α-dimethylbenzyl hydroperoxide (80-15-9)	
LD50 oral rat	382 mg/kg
LC50 Inhalation - Rat	1370 mg/l/4h
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (vapours)	0.05 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
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 : Suspected of damaging the unborn child.
STOT-single exposure : May cause respiratory irritation.

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
STOT-single exposure	May cause respiratory irritation.

acrylic acid (79-10-7)	
STOT-single exposure	May cause respiratory irritation.

2-Phenylacetohydrazide (114-83-0)	
STOT-single exposure	May cause respiratory irritation.

methacrylic acid (79-41-4)	
STOT-single exposure	May cause respiratory irritation.

1,4-naphthoquinone (130-15-4)	
STOT-single exposure	May cause respiratory irritation.

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

Flange Sealant - Anaerobic LP-IMP	
Viscosity, kinematic	> 20.5 mm²/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.

Phenol, ethoxylated, esters with acrylic acid (56641-05-5)

LC50 - Fish [1]	≈ 10 mg/l Test organisms (species): Leuciscus idus
LC50 - Fish [2]	≈ 10 mg/l Test organisms (species):
EC50 - Crustacea [1]	1.21 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	1.21 mg/l Test organisms (species):

EC50 72h - Algae [1]	4.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	1.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	4.1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [2]	1.33 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

Flange Sealant - Anaerobic LP-IMP

Persistence and degradability	Not biodegradable.

12.3. Bioaccumulative potential

Flange Sealant - Anaerobic LP-IMP

Bioaccumulative potential	No additional information available.

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

Log Pow	1.6

12.4. Mobility in soil

Flange Sealant - Anaerobic LP-IMP

Ecology - soil	Hardened adhesives are immobile.

12.5. Results of PBT and vPvB assessment

Flange Sealant - Anaerobic LP-IMP

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 legislation (waste) : Dispose of in accordance with local regulations.

Waste treatment methods : 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). Collect and reclaim or dispose in closed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

Product/Packaging disposal recommendations : 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.

European List of Waste (LoW) code : The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances
15 01 10* - packaging containing residues of or contaminated by dangerous substances

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
3(b)	2-hydroxyethyl methacrylate ; 2-phenoxyethyl acrylate ; 2-phenoxyethyl methacrylate ; acrylic acid ; [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate ; 2-Phenylacetohydrazide ; 2-hydroxypropyl methacrylate ; methacrylic acid
3(c)	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate ; 2-phenoxyethyl acrylate ; 2-phenoxyethyl methacrylate ; acrylic acid
40.	acrylic acid

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

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:
None.

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

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements

Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1
Acute Tox. 1 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
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.
H361d	Suspected of damaging the unborn child.
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.
Org. Perox. E	Organic Peroxides, Type E
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
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

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
Repr. 2	H361d	Expert judgement
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 LP-IMP

Ford Int. Ref. No.: 509241 **Revision Date:** 05.04.2023

Involved Products:

	Finiscode	Part number	Container Size:
1	2 707 575	PU7J M2G348 AA	50 ml