FLANGE SEALANT - ANAEROBIC LP-IMP

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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

1.1. Product identifier

Trade name	Flange Sealant - Anaerobic LP-IMP
Product code	Ford Internal Ref.: 183588
SDS Number	8060
Product use	Professional use

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

Relevant identified uses	Adhesives, sealants
Uses advised against	None known

1.3. Details of the supplier of the safety data sheet

Supplier	**Distributor**
Ford-Werke GmbH	Ford Motor Company Ltd.
Edsel-Ford-Str. 2-14	Parts Distribution Centre
50769 Cologne	Royal Oak Way South
Germany	NN11 8NT Daventry, Northants
+49 221 90-33333	United Kingdom
sdseu@ford.com	+44 1327 305 198

1.4. Emergency telephone number

+49 (0) 6132-84463 (GBK GmbH – 24/7)

2. SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

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.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008

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.
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.

3. 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	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	Aquatic Chronic 3, H412	
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 Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 2, H361d Aquatic Chronic 2, H411	

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
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. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Acute Tox. 2 (Inhalation:vapour), H330 Skin Corr. 1B, H314 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 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Acute 1, H400 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 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 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335	(1 ≤C < 100) STOT SE 3, H335 (Note D)

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
1,4-naphthoquinone	130-15-4 204-977-6	0,01 - < 0,1	Acute Tox. 3 (Oral), H301 Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	

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'.

#: substance with a Community workplace exposure limit

Full text of H-statements: see section 16

4. SECTION 4: First aid measures

4.1. Description of first aid measures

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

Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

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.

Eyes contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

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.

5. 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 combustion products 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.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment	Wear recommended personal protective equipment.
Emergency procedures	Ventilate spillage area. Avoid contact with skin and eyes.

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.

7. 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.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

EU

Regulation	Substance	Type	Value
COMMISSION	**acrylic acid (79-10-7)**	IOELV TWA	29 mg/m³

EU

DIRECTIVE (EU) 2017/164	Acrylic acid; Prop-2-enoic acid	IOELV TWA	10 ppm
		IOELV STEL	59 mg/m³
		IOELV STEL	20 ppm

United Kingdom

Regulation	Substance	Type	Value
EH40. HSE	**methacrylic acid (79-41-4)** Methacrylic acid	WEL TWA	72 mg/m³
		WEL TWA	20 ppm
		WEL STEL	143 mg/m³
		WEL STEL	40 ppm
EH40/2005 (Third edition, 2018). HSE	**acrylic acid (79-10-7)** Acrylic acid (Prop-2-enoic acid)	WEL TWA	29 mg/m³
		WEL TWA	10 ppm
		WEL 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

Monitoring methods

Follow standard monitoring procedures

DNEL: Derived no effect level

No data available

Components	Type	Route	Value	Form
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	Worker	Dermal	0.35 mg/kg bw/day	Long-term - systemic effects
		Inhalation	1.22 mg/m³	Long-term - systemic effects
	Consumer	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	Long-term - systemic effects
2-hydroxyethyl methacrylate (868-77-9)	Worker	Dermal	1.3 mg/kg bw/day	Long-term - systemic effects
		Inhalation	4.9 mg/m³	Long-term - systemic effects
	Consumer	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	Long-term - systemic effects
2-phenoxyethyl acrylate (48145-04-6)	Worker	Dermal	3.5 mg/kg bw/day	Long-term - systemic effects
		Inhalation	12 mg/m³	Long-term - systemic effects
		Inhalation	77 mg/m³	Long-term - local effects
2-phenoxyethyl methacrylate (10595-06-9)	Worker	Dermal	3.5 mg/kg bw/day	Long-term - systemic effects
		Inhalation	12 mg/m³	Long-term - systemic effects
		Inhalation	84 mg/m³	Long-term - local effects
α,α-dimethylbenzyl hydroperoxide (80-15-9)	Worker	Inhalation	6 mg/m³	Long-term - systemic effects
acrylic acid (79-10-7)	Worker	Dermal	1 mg/cm²	Acute - local effects
		Inhalation	30 mg/m³	Acute - local effects
		Inhalation	30 mg/m³	Long-term - local effects
	Consumer	Dermal	1 mg/cm²	Acute - local effects
		Inhalation	3.6 mg/m³	Acute - local effects
		Inhalation	3.6 mg/m³	Long-term - local effects

2-hydroxypropyl methacrylate (27813-02-1)	Worker	Dermal	4.2 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	14.7 mg/m³	Long-term - systemic effects
	Consumer	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	Long-term - systemic effects
methacrylic acid (79-41-4)	Worker	Dermal	1 mg/cm²	Acute - local effects
		Inhalation	30 mg/m³	Long-term - local effects
	Consumer	Dermal	1 mg/cm²	Acute - local effects
		Inhalation	3.6 mg/m³	Acute - local effects
		Inhalation	3.6 mg/m³	Long-term - local effects

PNEC: Predicted no effect concentration

No data available

Components	Type	Route	Value	Form
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	Not applicable	Freshwater	2.33 µg/L	
		Seawater	0.233 µg/L	
		sediment	1.2 mg/kg dwt	Freshwater
		sediment	0.12 mg/kg dwt	Seawater
		Soil	0.239 mg/kg dwt	
		STP	2.45 mg/l	
2-hydroxyethyl methacrylate (868-77-9)	Not applicable	Freshwater	0.482 mg/l	
		Seawater	0.482 mg/l	
		sediment	3.79 mg/kg dwt	Freshwater
		sediment	3.79 mg/kg dwt	Seawater
		Soil	0.476 mg/kg dwt	
		STP	10 mg/l	
2-phenoxyethyl acrylate (48145-04-6)	Not applicable	Freshwater	2 µg/L	
		Seawater	0.2 µg/L	
		sediment	0.02 mg/kg dwt	Freshwater
		sediment	0.002 mg/kg dwt	Seawater
		Soil	0.006 mg/kg dwt	
		STP	1.77 mg/l	
2-phenoxyethyl methacrylate (10595-06-9)	Not applicable	Freshwater	14.2 µg/L	
		Seawater	1.42 µg/L	
		sediment	0.665 mg/kg dwt	Freshwater
		sediment	0.067 mg/kg dwt	Seawater
		Soil	0.125 mg/kg dwt	
		STP	1.77 mg/l	
α,α-dimethylbenzyl hydroperoxide (80-15-9)	Not applicable	Freshwater	0.003 mg/l	
		Seawater	0 mg/l	
		sediment	0.23 mg/kg dwt	Freshwater
		sediment	0.002 mg/kg dwt	Seawater
		Soil	0.003 mg/kg dwt	
		STP	0.35 mg/l	
acrylic acid (79-10-7)	Not applicable	Freshwater	0.003 mg/l	
		Seawater	0 mg/l	
		Freshwater	0.001 mg/l	Intermittent release

		sediment	0.024 mg/kg dwt	Freshwater
		sediment	0.002 mg/kg dwt	Seawater
		Soil	1 mg/kg dwt	
		Oral	0.03 g/kg food	Secondary Poisoning
		STP	0.9 mg/l	
2-hydroxypropyl methacrylate (27813-02-1)	Not applicable	Freshwater	0.904 mg/l	
		Seawater	0.904 mg/l	
		Freshwater	0.972 mg/l	Intermittent release
		Seawater	0.972 mg/l	Intermittent release
		sediment	6.28 mg/kg dwt	Freshwater
		sediment	6.28 mg/kg dwt	Seawater
		Soil	0.727 mg/kg dwt	
		STP	10 mg/l	
methacrylic acid (79-41-4)	Not applicable	Freshwater	0.003 mg/l	
		Seawater	0 mg/l	
		Freshwater	0.001 mg/l	Intermittent release
		sediment	0.024 mg/kg dwt	Freshwater
		sediment	0.002 mg/kg dwt	Seawater
		Soil	1 mg/kg dwt	
		Oral	0.03 g/kg food	Secondary Poisoning
		STP	0.9 mg/l	

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

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

Individual protection measures, such as personal protective equipment (PPE)

Eye protection: Safety glasses. EN 166.

Skin protection

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 protective measures: Wear suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Type A - High-boiling (>65 °C) organic compounds

Skin and body protection	Wear suitable protective clothing
Thermal hazard protection	Wear appropriate thermal protective clothing, when necessary.
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.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Viscous.
Colour	Red.
Odour	mild.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	> 110 °C (closed cup)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	Water: Insoluble Acetone: Soluble
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

9.2. Other information

VOC (EU)	< 3 %

10. 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.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Mixture

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
Flange Sealant - Anaerobic LP-IMP	(calculated value)	ATE	oral	> 5000	mg/kg		
	(calculated value)	ATE	Dermal	> 5000	mg/kg		
	(calculated value)	ATE	Inhalation	> 20	mg/l/4h		vapours

Substance

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
α,α-dimethylbenzyl hydroperoxide (80-15-9)		LD50	oral	800	mg/kg		
		ATE	Dermal	1100	mg/kg		
		ATE	Inhalation	3	mg/l/4h		vapours
acrylic acid (79-10-7)		LD50	oral	1500	mg/kg	rat	
		ATE	Inhalation	11	mg/l/4h		vapours
	(OECD 402 method)	LD50	Dermal	> 2000	mg/kg	rabbit	
		ATE	Dermal	1100	mg/kg		
2-Phenylacetohydrazide (114-83-0)	(acc. CLP 3.1.2)	ATE	oral	50 - < 300	mg/kg		
methacrylic acid (79-41-4)	(OECD 401 method)	LD50	oral	1320	mg/kg bw	rat	
	(OECD 403 method)	LC50	Inhalation	7,1	mg/l/4h	rat	aerosol
		LD50	Dermal	500-1000	mg/kg bw	rabbit	

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.

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

12. 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)

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
α,α-dimethylbenzyl hydroperoxide (80-15-9)	crustacea		EC50	7 mg/l	24 h	
	Fish		LC50	3,9 mg/l	96 h	
acrylic acid (79-10-7)	Fish	Oncorhynchus mykiss (Rainbow	LC50	27 mg/l	96h	EPA OTS 797.1400

		trout)			
algae	Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	EC50	0,13 mg/l	72 h	

Hazardous to the aquatic environment, long-term (chronic)

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
acrylic acid (79-10-7)	algae	Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	EC50	0,04 mg/l	72 h	
	aquatic invertebrates	Daphnia magna	NOEC	3,8 mg/l	21 d	

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. 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.

13. 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

14. SECTION 14: Transport information

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

Not regulated for transport

15. SECTION 15: Regulatory information

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

EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006

α,α-dimethylbenzyl hydroperoxide ; acrylic acid	3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
Flange Sealant - Anaerobic LP-IMP ; 2-hydroxyethyl methacrylate ; 2-phenoxyethyl acrylate ; 2-phenoxyethyl methacrylate ; α,α-dimethylbenzyl hydroperoxide ; acrylic acid ; [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate ; 2-Phenylacetohydrazide ; 2-hydroxypropyl methacrylate ; methacrylic acid	3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
Flange Sealant - Anaerobic LP-IMP ; Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate ; 2-phenoxyethyl acrylate ; 2-phenoxyethyl methacrylate ; α,α-dimethylbenzyl hydroperoxide ; acrylic acid	3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
acrylic acid	40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC (EU)	< 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.

National regulations

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

16. SECTION 16: Other information

Indication of changes

Section 1 - Section 16.

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
AGW	Occupational exposure limit value
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Federal Institute for Materials Research and Testing, Germany
BAT	Maximum permissible concentration of biological working substances.
BCF	Bio-concentration factor.
BLV	Biological limit values
BLV	Biological limit values (BGW, Austria)
BMGV	Biological Monitoring Guidance Value (EH40,UK).
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
CESIO	European Committee on Organic Surfactants and their Intermediates.
COD	Chemical oxygen demand
CLP	Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR	Carcinogenic, Mutagenic or Reproduction Toxic Substances
CSA	Chemical safety assessment
CSR	Chemical Safety Report.
DMEL	Derived Minimum Effect Level.
DNEL	Derived no effect level
EAC	European waste catalogue
EC	European community
EC50	Effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EN	European norm.
ERC	ERC (Environmental Release category)
EU	European Union
GLP	Good Laboratory Practice.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
GW/VL	Occupational exposure limit value.
GW-kw/VL-cd	Occupational exposure limit value - short term.
GW-M/VL-M	Occupational exposure limit value – "Ceiling".
IATA	International Air Transport Association
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	International Maritime Dangerous Goods
ISO	International Standards Organization.
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal Concentration 50%.
LCLo	Lowest published lethal concentration.
LD50	Lethal Dose 50%.
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest observable effect concentration.
LOEL	Lowest observable effect level.
LQ	Limited quantities
TRK-Kzw	Threshold limit value - Short-term exposure limit / Technical reference concentration - short-time value, Austria.
MAK-Mow	Maximum allowable workplace concentration – instantaneous value, Austria.
MAK-Tmw, TRK-Tmw	Maximum allowable workplace concentration – daily mean value / Technical standard concentration – daily mean value, Austria.
MAK	Threshold limit values Germany.
MARPOL	International Convention for the Prevention of Pollution from Ships.
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
NOEL	no-observed-effect level
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limits
PBT	Persistent Bioaccumulative Toxic
PC (Chemical product category)	PC (Chemical product category)
PNEC	Predicted No-Effect Concentration
POCP	Photochemical ozone creation potential.
POP	Persistent Organic Pollutants
PPE	Personal protective equipment
Process category	Process category
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
SCL	Specific concentration limit.
STEL	Short-term Exposure Limit
STP	Sewage treatment plant
SU (Sector of use)	SU (Sector of use)
SVHC	Substance of Very High Concern.
TLV	Threshold Limit Value
TRGS	Technical Rules for Hazardous Substances (German Standard).
TWA	Time Weighted Average
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials

VbF	Ordinance on Flammable Liquids, Austria
VOC	Volatile organic compounds
vPvB	Very Persistent and 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).

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

Classification according to Regulation (EC) No. 1272/2008

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Repr. 2	H361d
STOT SE 3	H335
Aquatic Chronic 3	H412

Full text of H- and EUH-statements

Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1.
Acute Tox. 2 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 2.
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3.
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), 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 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) 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.
Org. Perox. E	Organic Peroxides, Type E.
Repr. 2	Reproductive toxicity, Category 2.
Skin Corr. 1A	Skin corrosion/irritation, Category 1A.
Skin Corr. 1B	Skin corrosion/irritation, Category 1B.
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.
H226	Flammable liquid and vapour..
H242	Heating may cause a fire..
H301	Toxic if swallowed..
H302	Harmful if swallowed..
H311	Toxic in contact with skin..
H312	Harmful in contact with skin..
H314	Causes severe skin burns and eye damage..
H315	Causes skin irritation..
H317	May cause an allergic skin reaction..
H318	Causes serious eye damage..
H319	Causes serious eye irritation..
H330	Fatal if inhaled..
H331	Toxic 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..

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	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 LP-IMP

Ford Int. Ref. No.: 183588 REVISION DATE: 22.01.2020

Involved Products:

	Finiscode	Part number	Container Size:
. 1	1 761 780	BU7J M2G348 AA	50 ml