SEALANT LGN-2

SAFETY DATA SHEET

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

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	Sealant LGN-2
Product code	:	Ford Int. Ref. No.: 200046
SDS Number	:	3838
Unique Formula Identifier (UFI)	:	A7Q5-RNS7-VU16-PDJK
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 1	H318	Causes serious eye damage.
	Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation.
Environmental hazards	Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412	Harmful to aquatic life with long lasting effects.

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms

Signal word	Danger
Contains	acrylic acid; 2-hydroxypropyl methacrylate; 2-hydroxyethyl methacrylate; 3,3,5-trimethylcyclohexyl methacrylate

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

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

Response

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor, a POISON CENTER.
P333+P313	If skin irritation or rash occurs: 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
Reaction mass of (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate and 2-{4-[2-(4-{2-[2-(methacryloyloxy)ethoxy]ethoxy}phenyl)propan-2-yl]phenoxy}ethyl methacrylate	939-702-5 01-2119980581-32-XXXX	25 - 50	Aquatic Chronic 4, H413	
2-hydroxyethyl methacrylate	868-77-9 212-782-2 607-124-00-X	10 - 20	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	10 – 20	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 01-2119452449-31-XXXX	1 -< 5	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-hydroxypropyl methacrylate	27813-02-1 248-666-3 - 01-2119490226-37-XXXX	1 -< 5	Eye Irrit. 2, H319 Skin Sens. 1, H317	
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	935-411-2 01-2119980659-17-XXXX	0,25 - < 2,5	Aquatic Chronic 4, H413	
maleic acid	110-16-7 203-742-5 607-095-00-3 01-2119488705-25-XXXX	0.1 < 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335	(0.1 ≤ C < 100) Skin Sens. 1; H317
α,α-dimethylbenzyl hydroperoxide	80-15-9 201-254-7 617-002-00-8 01-2119475796-19-XXXX	0,1 - < 1	Org. Perox. E, H242 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (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	(1 ≤ C < 3) Eye Irrit. 2; H319 (1 < C < 100) STOT SE 3; H335 (3 ≤ C < 10) Skin Irrit. 2; H315 (3 ≤ C < 10) Eye Dam. 1; H318 (10 ≤ C < 100) Skin Corr. 1B; H314
2-Phenylacetohydrazide	114-83-0 204-055-3 - 01-2120951382-56-XXXX	0.1 – 0.99	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 (M=1.0) Aquatic Chronic 1, H410 (M=1.0)	
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0 203-652-6 01-2119969287-21-XXXX	0.1 < 1	Skin Sens. 1B, H317	
methacrylic acid	79-41-4 201-204-4	0.1 < 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg	(1 ≤ C ≤ 100) STOT SE 3; H335

	607-088-00-5 01-2119463884-26-XXXX		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	(Note D)
2-(2-Hydroxyethoxy)ethyl methacrylate	2351-43-1 800-422-2	0,1 - < 1	Eye Irrit. 2, H319 Skin Sens. 1, H317	

Comments : #: substance with a Community workplace exposure limit
UVCB: Substances of Unknown or Variable composition, Complex reaction products or Biological materials

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. Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and seek medical advice.

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 : Gently wash with plenty of soap and water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth out with water. Call a poison center or a doctor if you feel unwell. Drink plenty of water. Do not induce vomiting.

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 : Skin rash/inflammation. irritation (itching, redness, blistering). May cause an allergic skin reaction.

Symptoms/effects after eye contact : Permanent eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO2). nitrogen oxides (NOx) and sulphur 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 containers exposed to heat with water spray and remove container, if no risk is involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Ensure adequate ventilation, especially in confined areas. For personal protection, see section 8 of the SDS.

Emergency procedures : Eliminate all ignition sources if safe to do so. Avoid contact with skin and eyes. Avoid breathing mist or vapor.

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. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Small spills: Take up liquid spill into absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Avoid contact with skin, eyes and clothing. Avoid breathing mist or vapor. Do not pierce or burn, even after use.

Hygiene measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation, especially in confined areas.

Storage conditions : Keep cool. Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special rules on packaging : Keep only in original container. Keep container tightly closed and dry.

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
	10 ppm
IOEL STEL	59 mg/m³

	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)	29 mg/m³
	10 ppm
WEL STEL (OEL STEL)	59 mg/m³ 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/m³
	20 ppm
WEL STEL (OEL STEL)	143 mg/m³
	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/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	4.35 mg/m³
Long-term - systemic effects, dermal	2.5 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0.904 mg/l
PNEC aqua (marine water)	0.904 mg/l
PNEC aqua (intermittent, freshwater)	0.972 mg/l
PNEC aqua (intermittent, marine water)	0.972 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	6.28 mg/kg dwt
PNEC sediment (marine water)	6.28 mg/kg dwt

PNEC (Soil)

PNEC soil	0.727 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant	10 mg/l

maleic acid (110-16-7)

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	3 mg/m³
Acute - local effects, inhalation	3 mg/m³
Long-term - systemic effects, inhalation	3 mg/m³
Long-term - local effects, inhalation	3 mg/m³

PNEC (Water)

PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (marine water)	0.01 mg/l
PNEC aqua (intermittent, freshwater)	0.428 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0.334 mg/kg dwt
PNEC sediment (marine water)	0.033 mg/kg dwt

PNEC (Soil)

PNEC soil	0.042 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant	44.6 mg/l

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

DNEL/DMEL (Workers)

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

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

DNEL/DMEL (General population)

Long-term - systemic effects,oral	8.33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	14.5 mg/m³
Long-term - systemic effects, dermal	8.33 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0.016 mg/l
PNEC aqua (marine water)	0.002 mg/l
PNEC aqua (intermittent, freshwater)	0.016 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0.185 mg/kg dwt
PNEC sediment (marine water)	0.018 mg/kg dwt

PNEC (Soil)

PNEC soil	0.027 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant	1.7 mg/l

methacrylic acid (79-41-4)

DNEL/DMEL (Workers)

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

DNEL/DMEL (General population)

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

PNEC (Water)

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

PNEC (Sediment)

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

PNEC (Soil)

PNEC soil	1.2 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant	10 mg/l

2-hydroxyethyl methacrylate (868-77-9)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	1.3 mg/kg bodyweight/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

3,3,5-trimethylcyclohexyl methacrylate (7779-31-9)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	46.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	16.45 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects,oral	1.67 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.9 mg/m³
Long-term - systemic effects, dermal	16.7 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0.59 µg/L
PNEC aqua (marine water)	0.059 µg/L
PNEC aqua (intermittent, freshwater)	5.9 µg/L

PNEC (Sediment)

PNEC sediment (freshwater)	0.044 mg/kg dwt
PNEC sediment (marine water)	0.004 mg/kg dwt

PNEC (Soil)

PNEC soil	0.008 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant	100 mg/l

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

DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation	6 mg/m³

PNEC (Water)

PNEC aqua (freshwater)	0.003 mg/l
PNEC aqua (marine water)	0 mg/l

PNEC aqua (intermittent, freshwater)	0.031 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0.023 mg/kg dwt
PNEC sediment (marine water)	0.002 mg/kg dwt

PNEC (Soil)

PNEC soil	0.003 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant	0.35 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

Personal protective equipment:
Wear recommended personal protective equipment.

8.2.2.1. Eye and face protection

Eye protection:
Safety glasses. EN 166. Safety glasses with side shields

8.2.2.2. Skin protection

Skin and body protection:
EN ISO 13982. Wear suitable protective clothing. Long sleeved protective clothing

Hand protection:
Protective gloves. ISO 374-1. 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
Butyl rubber	6 (> 480 minutes)	0,7	Glove recommendation: Butoject® 898 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.
In case of splash contact: Butyl rubber	6 (> 480 minutes)	0,7	Glove recommendation: Butoject® 898 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.

Other skin protection

Materials for protective clothing:
Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment

8.2.2.3. Respiratory protection

Respiratory protection:
EN 14387. 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. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Green.
Odour	:	Characteristic.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	> 149 °C
Flammability	:	Not applicable
Explosive limits	:	Not available
Lower explosive limit (LEL)	:	Not available
Upper explosive limit (UEL)	:	Not available
Flash point	:	93.3 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	Not available
Solubility	:	insoluble in water. Miscible with : acetone.
Log Kow	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	1.1 g/cm³
Relative density	:	Not available
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	:	0 %

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

Avoid heat, sparks, open flames and other ignition sources. Direct sunlight. For further information see section 7.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

During fire, gases hazardous to health may be formed. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

maleic acid (110-16-7)	
LD50 oral rat	708 mg/kg

methacrylic acid (79-41-4)	
LD50 oral rat	1320 mg/kg bodyweight (OECD 401 method)
LD50 dermal rabbit	500 – < 1000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	3.19 – 6.5 mg/l/4h (OECD 403 method)

α,α-dimethylbenzyl hydroperoxide (80-15-9)	
LD50 oral rat	382 mg/kg
LC50 Inhalation - Rat	1370 mg/l/4h 7h

2-Phenylacetohydrazide (114-83-0)	
LD50 oral rat	310.2 mg/kg (OECD 425 method); Up and down procedure

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.
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.

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

maleic acid (110-16-7)	
STOT-single exposure	May cause respiratory irritation.

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

3,3,5-trimethylcyclohexyl methacrylate (7779-31-9)	
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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and symptoms : Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea,However, ingestion is not likely to be a primary route of occupational exposure

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	Toxic 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.

2-Phenylacetohydrazide (114-83-0)

EC50 - Crustacea [1]	1.1 mg/l 48 h; Daphnia magna (Water flea)(OECD 202 method)
NOEC chronic algae	0.012 mg/l 72h; Pseudokirchneriella subcapitata (OECD 201 method)

12.2. Persistence and degradability

Sealant LGN-2

Persistence and degradability	The product is not biodegradable.

maleic acid (110-16-7)

Persistence and degradability	Readily biodegradable, according to appropriate OECD test. (OECD 301B method).
Biodegradation	97.08 % 28 days

2-Phenylacetohydrazide (114-83-0)

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

12.3. Bioaccumulative potential

maleic acid (110-16-7)

Log Pow	-1.3 (OECD 107 method)

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

Log Pow	1.6

2-Phenylacetohydrazide (114-83-0)

Log Pow	0.74 Quantitative structure-activity relationship (QSAR)

12.4. Mobility in soil

Sealant LGN-2

Ecology - soil	Hardened adhesives are immobile.

12.5. Results of PBT and vPvB assessment

Sealant LGN-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

Additional information	:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	:	Disposal must be done according to official regulations.
Waste treatment methods	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations	:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Empty containers should be taken to an approved waste handling site for recycling or disposal.
European List of Waste (LoW, EC 2000/532)	:	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID
Not regulated for transport

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)

Reference code	Applicable on
3(a)	acrylic acid ; α,α-dimethylbenzyl hydroperoxide
3(b)	Sealant LGN-2 ; acrylic acid ; 2-hydroxypropyl methacrylate ; 2,2'-ethylenedioxydiethyl dimethacrylate ; methacrylic acid ; 2-hydroxyethyl methacrylate ; 3,3,5-trimethylcyclohexyl methacrylate ; α,α-dimethylbenzyl hydroperoxide ; 2-Phenylacetohydrazide
3(c)	Sealant LGN-2 ; acrylic acid ; 3,3,5-trimethylcyclohexyl methacrylate ; α,α-dimethylbenzyl hydroperoxide ; 2-Phenylacetohydrazide
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	:	0 %
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 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. For details, refer to section 3 and 8.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information	:	Not applicable

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
E2 Hazardous to the Aquatic Environment in Category Chronic 2	200	500

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:
SECTION 2. Classification. SECTION 3 : Composition/information on ingredients.

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
BLV	Biological limit value

BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
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
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile organic compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

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. 1 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 1
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
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
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	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

Productname: Sealant LGN-2

Ford Internal Ref.: 200046 **Revision Date:** 19.02.2025

Involved Products:

	Finiscode	Part Number	Packaging
1	2 311 115	9U7J M2G349 BA	10 ml