# **TYRE SEALANT DL2**

# **SAFETY DATA SHEET**

according to Regulation (EU) 2015/830



ISSUE DATE: 15.12.2017 REVISION DATE: 30.07.2020 SUPERSEDES DATE: 15.12.2017

VERSION: 2.0

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

#### 1.1. Product identifier

**Trade name** Tyre Sealant DL2

**Product code** Ford Internal Ref.: 198852

SDS Number 1328

Product use Public 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

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

# 2.2. Label elements

This mixture does not meet the criteria for labelling according to Regulation (EC) 1272/2008 as amended.

# Supplemental hazard information

EUH210 Safety data sheet available on request.

EUH208 Contains Natural rubber. May produce an allergic reaction.

#### 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
Ethylene Glycol	107-21-1 203-473-3 603-027-00-1 01-2119456816-28- XXXX	1 - < 10	Acute Tox. 4 (Oral), H302 STOT RE 2, H373	#
Natural rubber	9006-04-6 232-689-0	0.1 - < 1	Skin Sens. 1B, H317	
ammonium hydroxide	1336-21-6 007-001-01-2 01-2119982985-14- XXXX	0.1 - < 0.5	Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400	( 5 ≤C < 100) STOT SE 3, H335 # (Note B)

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis

#: 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. Never give anything by mouth to an

unconscious person.

Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical

attention if symptoms occur.

**Skin contact:** Wash skin with plenty of water and soap. Take off contaminated clothing and

wash it before reuse. If skin irritation or rash occurs: Get medical

advice/attention.

Eyes 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. Consult an ophtalmologist if irritation persists.

**Ingestion** Rinse mouth thoroughly. Do not induce vomiting. Get medical attention if

symptoms occur.

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

Symptoms/effects: May produce an allergic reaction. Certain reactions were observed for sensitive

people. irritation of mucous membranes. Skin irritation. May cause eye irritation.

# 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). Nitrous gas.

5.3. Advice for firefighters

entering water courses, sewers and basements. Move containers from fire area if it can be done without personal risk. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Protection during firefighting Self-contained breathing apparatus and full protective clothing must be worn in

case of fire.

#### 6. SECTION 6: Accidental release measures

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

General measures Avoid contact with skin and eyes. Ventilate spillage area.

For non-emergency personnel

Emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of

spill/leak. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained.

For personal protection, see section 8 of the SDS.

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.

# 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. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. 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.

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

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

considerations".

# 7. SECTION 7: Handling and storage

Reference to other sections

# 7.1. Precautions for safe handling

6.4.

**Precautions for safe handling**Ensure good ventilation of the work station. Wear personal protective equipment.

Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor.

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

Storage conditions Store in a well-ventilated place. Keep cool.

**Incompatible materials** oxidizing materials.

Storage temperature > 15 °C

**Special rules on packaging** Keep only in original container.

# 7.3. Specific end use(s)

# 8. SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

<u>EU</u>						
Regulation	Substance		Туре	Value		
COMMISSION	Ethylene Glycol (10	7-21-1)	IOELV TWA	52 mg/m	3	
DIRECTIVE 2000/39/EC	Ethylene glycol		IOELV TWA 20 ppm			
			IOELV STEL 104 mg/r		n³	
			IOELV STEL	L 40 ppm		
			Notes	Skin		
	ammonium hydrox	ide (1336-	IOELV TWA	14 mg/m	3	
	<b>21-6</b> ) Ammonia, anhydrou	\$	IOELV TWA	20 ppm		
	7 aminoma, amiyarda	•	IOELV STEL	36 mg/m	3	
			IOELV STEL	50 ppm		
United Kingdom						
Regulation	Substance		Туре	Value		
EH40. HSE	Ethylene Glycol (10 Ethane-1,2-diol	)7 <b>-21-1</b> )	WEL TWA		<sup>3</sup> Vapours <sup>3</sup> vapour	
			WEL TWA	20 ppm v	vapour	
			WEL STEL	104 mg/r	m³ vapour	
			WEL STEL 40 ppr		vapour	
			skin. Th those fo that der		be absorbed through the e assigned substances are or which there are concerns mal absorption will lead to c toxicity)	
	ammonium hydroxide (1336- 21-6 ) Ammonia, anhydrous		WEL TWA	18 mg/m³		
			WEL TWA 25			
			WEL STEL 25 mg/m		3	
			WEL STEL	35 ppm		
DNEL: Derived no effect No data available	ct level					
Components	Туре	Route	Value		Form	
Ethylene Glycol (107-21-		Dermal Inhalation	106 mg/kg bodyweight/day 35 mg/m³	′	Long-term - systemic effects Long-term - local effects	
	Consumer	Dermal	53 mg/kg bodyweight/day		Long-term - systemic effects	
		Inhalation	7 mg/m³		Long-term - local effects	
PNEC: Predicted no eff No data available	fect concentration					
Components	Туре	Route	Value		Form	
Ethylene Glycol (107-21-	-1) Not applicable	Freshwater Seawater	10 mg/l 1 mg/l			
		Freshwater	10 mg/l		Intermittent release	
		Seawater	10 mg/l		Intermittent release	
		sediment	37 mg/kg dwt		Freshwater	
		sediment	3.7 mg/kg dwt		Seawater	
		Soil	1.53 mg/kg dwt			
		STP	199.5 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 Wear suitable protective clothing. Individual protection measures, such as personal protective equipment (PPE)

**Eye protection** EN 166. Wear security glasses which protect from splashes

Skin protection

Hand protection 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

		rocommonaca giovo			
Material	Permeation	Thickness (mm)	Comments		
Nitrile rubber (NBR)	6 (> 480 minutes)	0.4	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	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.		
Other protective	measures	handling the material	personal hygiene measures, such as washing after and before eating, drinking, and/or smoking. Routinely or protective equipment to remove contaminants.		
Respiratory protection		[In case of inadequate ventilation] wear respiratory protection. Type A - High-boiling (>65 °C) organic compounds			
Skin and body prote	ction	Wear suitable protecti	ve clothing,Long sleeved protective clothing		
Thermal hazard prote	ection	Wear appropriate ther	mal protective clothing, when necessary.		
Environmental expos	sure controls	Inform appropriate ma releases.	nagerial or supervisory personnel of all environmental		

# 9. SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	White.
Odour	Ammoniacal.
Odour threshold	No data available
pH	9.65
Relative evaporation rate (butylacetate=1)	No data available
Melting point	< -40 °C
Freezing point	No data available
Boiling point	≈ 100 °C
Flash point	No data available
Auto-ignition temperature	> 410 °C
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.02 g/cm³ @ 20°C
Solubility	Miscible with water.
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	15 – 45 mPa·s
Explosive properties	No data available

Oxidising properties No data available Explosive limits No data available

9.2. Other information

VOC (EU) 0 %

# 10. 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 temperatures exceeding the decomposition temperature. Overheating.

**10.5.** Incompatible materials Oxidising agents. Solvent.

**10.6.** Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products

should not be produced. During fire, gases hazardous to health may be formed.

Carbon dioxide. Carbon monoxide. Nitrogen oxides.

# 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	
Tyre Sealant DL2	(calculated value)	ATE	oral	> 5000	mg/kg			
Skin corrosion/irritat	ion		Based on available	data, the cl	assificatio	n criteria are n	ot met.	
Serious eye damage/	irritation		Based on available	data, the cl	assificatio	n criteria are n	ot met.	
Respiratory or skin s	ensitisation		Based on available	data, the cl	assificatio	n criteria are n	ot met.	
Germ cell mutagenic	ity		Based on available	data, the cl	assificatio	n criteria are n	ot met	
Carcinogenicity			Based on available	data, the cl	assificatio	n criteria are n	ot met	
Reproductive toxicity	1		Based on available	data, the cl	assificatio	n criteria are n	ot met	
STOT-single exposur	е		Based on available	data, the cl	assificatio	n criteria are n	ot met	
STOT-repeated expo	sure		Based on available	data, the cl	assificatio	n criteria are n	ot met	
Aspiration hazard			Based on available	data, the cl	assificatio	n criteria are n	ot met	
Other information			May cause an allerg	ic skin read	ction.			

# 12. SECTION 12: Ecological information

#### 12.1. Toxicity

**Ecology - general** The product is not classified as environmentally hazardous. However, this does

not exclude the possibility that large or frequent spills can have a harmful or

damaging effect on the environment.

# 12.2. Persistence and degradability

Ethylene Glycol (107-21-1)

Persistence and degradability Readily biodegradable, according to appropriate OECD test. (OECD 301A

method).

#### 12.3. Bioaccumulative potential

#### Ethylene Glycol (107-21-1)

**Log Pow** -1.36 at 25 °C

# 12.4. Mobility in soil

No additional information available.

#### 12.5. Results of PBT and vPvB assessment

# Tyre Sealant DL2

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) 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).

Dispose of in accordance with local regulations.

Waste treatment methods Collect and reclaim or dispose in sealed containers at licensed waste disposal

site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with licensed collector's sorting

instructions.

Product/Packaging disposal

recommendations

08 04 10

Since emptied containers may retain product residue, follow label warnings even

after container is emptied. Empty containers should be taken for recycling,

recovery or waste in accordance with local regulation.

Additional information

European List of Waste (LoW) code

The Waste code should be assigned in discussion between

the user, the producer and the waste disposal company.

Dispose in accordance with all applicable regulations.

waste adhesives and sealants other than those mentioned in

08 04 09

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

Ethylene Glycol 3. Liquid substances or mixtures which are regarded as dangerous in

accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No

1272/2008

Ethylene Glycol 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

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC (EU) 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 94/33/EC on the protection of young people at work, 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. For details, refer to section 3 and 8.

Not applicable

**Seveso Information National regulations** 

No additional information available.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information** 16.

# Indication of changes

Section 1 - Section 16. Section Changed item Change Comments

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 (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-M/VL-d 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 PC (Chemical product category)

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

Not classified

# Full text of H- and EUH-statements

Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4.

Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1.

Skin Corr. 1B Skin corrosion/irritation, Category 1, Sub-Category 1B.

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.

H302 Harmful if swallowed...

H314 Causes severe skin burns and eye damage..

H317 May cause an allergic skin reaction..
H335 May cause respiratory irritation..

H373 May cause damage to organs through prolonged or repeated exposure..

H400 Very toxic to aquatic life..

EUH208 Contains Natural rubber. May produce an allergic reaction..

EUH210 Safety data sheet available on request..

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: Tyre Sealant DL2

Ford Int. Ref. No.: 198852 REVISION DATE: 30.07.2020

**Involved Products:** 

Finiscode Part number Container Size:

. 1 2 204 141 HU7J 1568 AA 200 ml