TYRE SEALANT



SAFETY DATA SHEET

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

ISSUE DATE: 11.07.2023 **REVISION DATE: 11.07.2023**

VERSION: 1.0

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

1.1. Product identifier

Product form : Mixture Trade name : Tyre Sealant

Product code : Ford Internal Ref.: 508928

SDS Number : 10887

UFI HRFF-3FMR-C10R-R9N7

Product use : Public 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 : Tyre Sealant

1.2.2. Uses advised against

Restrictions on use : None known

1.3. Details of the supplier of the safety data sheet

Distributor

Ford-Werke GmbH Ford Motor Company Ltd. Edsel-Ford-Str. 2-14 Parts Distribution Centre 50769 Cologne Royal Oak Way South NN11 8NT Daventry, Northants Germany

+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)

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 Specific target organ toxicity -H373 May cause damage to organs (kidneys) Repeated exposure, Category 2

through prolonged or repeated exposure

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

GB - en

Hazard pictograms



Signal word Product code: Ford Internal Ref.: 508928 **Contains** Ethanediol

Hazard statements

H373 May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Precautionary statements

General

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Prevention

P260 Do not breathe vapours, mist.

Response

P314 Get medical advice/attention if you feel unwell.

Disposal

P501 Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Notes
Ethanediol	107-21-1 203-473-3 603-027-00-1 01-2119456816-28-XXXX	10 - 25	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT RE 2, H373	substance with a Community workplace exposure limit
ammonia	1336-21-6 215-647-6 007-001-01-2 01-2119982985-14-XXXX	0,1 - < 0,25	Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=1.0)	(5 ≤ C ≤ 100) STOT SE 3, H335 substance with a Community workplace exposure limit (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: '... %'. 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.

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 : Get medical advice/attention if you feel unwell.

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

feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution. IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

First-aid measures after ingestion : Rinse mouth thoroughly. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects after skin contact : Repeated or prolonged skin contact may cause irritation.

Chronic symptoms : May cause damage to organs through prolonged or repeated exposure.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide. nitrogen oxides (NOx) and sulphur oxides.

5.3. Advice for firefighters

Firefighting instructions : Cool containers exposed to heat with water spray and remove container, if no risk is involved.

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

apparatus. Complete protective clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment and clothing during clean-up. For personal protection, see

section 8 of the SDS.

Emergency procedures : Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate

spillage area. Wear appropriate protective equipment and clothing during clean-up. Local

authorities should be advised if significant spillages cannot be contained.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

Emergency procedures : Keep unnecessary personnel away. Ventilate area.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. 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 in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). 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.

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

Additional hazards when processed : Do not get in eyes, on skin, or on clothing.

Precautions for safe handling : Ensure good ventilation of the work station. Avoid prolonged exposure. Wear personal protective

equipment. Do not breathe vapours, mist.

Hygiene measures : Observe good industrial hygiene practices. 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 : Proper grounding procedures to avoid static electricity should be followed. Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Storage area : Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3. Specific end use(s)

Sealants.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Ethanediol (107-21-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Ethylene glycol	
IOEL TWA	52 mg/m³	
IOEL TWA [ppm]	20 ppm	
IOEL STEL	104 mg/m³	
IOEL STEL [ppm]	40 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
Local name	Ethane-1,2-diol	
WEL TWA (OEL TWA) [1]	10 mg/m³ particulate 52 mg/m³ vapour	
WEL TWA (OEL TWA) [2]	20 ppm vapour	
WEL STEL (OEL STEL)	104 mg/m³ vapour	
WEL STEL	40 ppm vapour	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
ammonia (1336-21-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Ammonia, anhydrous	
IOEL TWA	14 mg/m³	
IOEL TWA [ppm]	20 ppm	
IOEL STEL	36 mg/m³	
IOEL STEL [ppm]	50 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
Local name	Ammonia, anhydrous	
WEL TWA (OEL TWA) [1]	18 mg/m³	
WEL TWA (OEL TWA) [2]	25 ppm	
WEL STEL (OEL STEL)	25 mg/m³	
WEL STEL	35 ppm	
Regulatory reference	EH40/2005 (Third edition, 2018). HSE	

Exposure limit values for the other components

Propane-1,2-diol (57-55-6)

United Kingdom - Occupational Exposure Limits

Local name Propane-1,2-diol

WEL TWA (OEL TWA) [1] 10 mg/m³ particulates

474 mg/m³ total vapour and particulates

WEL TWA (OEL TWA) [2] 150 ppm total vapour and particulates

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

Ethanediol (107-21-1)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 106 mg/kg bodyweight/day

Long-term - local effects, inhalation 35 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, dermal 53 mg/kg bodyweight/day

Long-term - local effects, inhalation 7 mg/m³

PNEC (Water)

PNEC aqua (freshwater) 10 mg/l

PNEC aqua (marine water) 1 mg/l

PNEC aqua (intermittent, freshwater) 10 mg/l

PNEC (Sediment)

PNEC sediment (freshwater) 37 mg/kg dwt

PNEC sediment (marine water) 3.7 mg/kg dwt

PNEC (Soil)

PNEC soil 1.53 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 199.5 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:

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

8.2.2.1. Eye and face protection

Eve protection:

Use eye protection to EN 166, designed to protect against liquid splashes.

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. Long sleeved protective clothing

Hand protection:

Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent)

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 skin protection

Materials for protective clothing:

Wear appropriate personal protective equipment

8.2.2.3. Respiratory protection

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. If the occupational exposure limit is exceeded: Wear a respirator conforming to EN140 with Type A filter or better

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.

Other information:

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	whitish.
Odour	:	Characteristic.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	100 °C
Flammability	:	Not available
Explosive properties	:	Not applicable.
Explosive limits	:	Not available
Lower explosive limit (LEL)	:	Not available
Upper explosive limit (UEL)	:	Not available
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	Not available

Solubility : insoluble in water. partly miscible.

Log Kow : Not available Vapour pressure : Not available

Vapour pressure at 50°C : Not available : Not available Density Not available Relative density Relative vapour density at 20°C Not available : Not applicable Particle size : Not applicable Particle size distribution Particle shape Not applicable Particle aspect ratio Not applicable Not applicable Particle aggregation state : Not applicable Particle agglomeration state 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 : 32.9 %

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

No flames, no sparks. Eliminate all sources of ignition. Avoid temperatures exceeding the decomposition temperature. 250 °C.

10.5. Incompatible materials

Strong oxidizing agents.

Aspiration hazard

10.6. Hazardous decomposition products

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

Tyre Sealant		
ATE CLP (oral)	> 2000 mg/kg bodyweight rat	
Skin corrosion/irritation	: Based on available data, the classification criteria are not met	
Serious eye damage/irritation	: Based on available data, the classification criteria are not met	
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met	
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	: Based on available data, the classification criteria are not met	
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).	
Ethanediol (107-21-1)		
STOT-repeated exposure	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).	

Based on available data, the classification criteria are not met

11.2. Information on other hazards

No additional information available

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.

Hazardous to the aquatic environment, short-term

: Based on available data, the classification criteria are not met

Hazardous to the aquatic environment, long-term

: Based on available data, the classification criteria are not met

(chronic)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Ethanediol (107-21-1)

Log Pow

-1.36

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Tyre Sealant

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

: 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 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

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

: Dispose in accordance with all applicable regulations.

European List of Waste (LoW) code

The Waste code should be assigned in discussion between the user, the producer and the waste

08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 04 00 - wastes from MFSU of adhesives and sealants (including waterproofing products) 08 04 15* - aqueous liquid waste containing adhesives or 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(b) Tyre Sealant; Ethanediol; ammonia

3(c) ammonia

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 : 32.9 %

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.

the risks related to ci

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not applicable

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

None.

Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate
BCF Bioconcentration factor

CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

DMEL Derived Minimal Effect level
DNEL Derived-No Effect Level
EC50 Median effective concentration
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

LC50 Median lethal concentration

LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration

NOEC No-Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent Bioaccumulative Toxic
PNEC Predicted No-Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

SDS Safety Data Sheet
STP Sewage treatment plant
TLM Median Tolerance Limit

vPvB Very Persistent and Very Bioaccumulative

OEL Occupational Exposure Limit

RRN REACH Registration no.

VOC Volatile organic compounds

STEL Short-term Exposure Limit

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of

16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC)

No 1907/2006.

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

Full text of H- and EUH-statements

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

Aquatic Acute 1 Hazardous to the aquatic environment – Acute Hazard, Category 1

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

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

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

STOT RE 2 H373 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: Tyre Sealant

Ford Int. Ref. No.: 508928 Revision Date: 11.07.2023

Involved Products:

Finiscode Part number Container Size:

. 1 2 688 365 NU7J 1568 BA 300 ml . 2 2 688 549 NU7J 1568 CA 450 ml