ADHESIVE H-PU1

1.1.

SAFETY DATA SHEET

according to Regulation (EU) 2015/830



ISSUE DATE: 07.05.2015 REVISION DATE: 10.12.2019 SUPERSEDES DATE: 30.06.2016 VERSION: 2.1

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

Product identifierTrade nameAdhesive H-PU1Product codeFord Internal Ref.: 195087SDS Number5890Product useProfessional use

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

Relevant identified usesAdhesives, sealantsUses advised againstNone 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 Respiratory sensitisation, Category 1

2.2. Label elements

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



Danger

Signal word Contains Hazard statements H334 Precautionary statements Prevention P261 Response

4,4'-methylenediphenyl diisocyanate

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Avoid breathing vapours.

May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P342+P311	If experiencing respiratory symptoms: Call a doctor, a POISON CENTER

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.

SECTION 3: Composition/information on ingredients 3.

3.2. **Mixtures**

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
Oxydipropyl dibenzoate	27138-31-4 248-258-5 01-2119529241-49- XXXX	0,25 - < 2,5	Aquatic Chronic 3, H412	
4,4'-methylenediphenyl diisocyanate	101-68-8 202-966-0 615-005-00-9 01-2119457014-47- XXXX	0,1 - < 1	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373	(0.1 = <c <="100)" resp.<br="">Sens. 1, H334 (5 =<c <="100)" eye="" irrit.<br="">2, H319 (5 =<c <="100)" skin<br="">Irrit. 2, H315 (5 =<c <="100)" stot<br="">SE 3, H335 (Note C)(Note 2)</c></c></c></c>

Note 2 : The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H-statements: see section 16

4. **SECTION 4: First aid measures**

4.1. Description of first aid measures

General information	Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
Skin contact:	Wash skin with plenty of water. If skin irritation 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 out with water. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	Repeated or prolonged skin contact may cause irritation.

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

Treat symptomatically.

5. SECTION 5: Firefighting measures

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.
Special hazards arising from the subst	tance or mixture
Hazardous combustion products	During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO2).
Advice for firefighters	
Precautionary measures fire	In case of fire and/or explosion do not breathe fumes.
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self- contained breathing apparatus. Complete protective clothing.
	Suitable extinguishing media Unsuitable extinguishing media Special hazards arising from the subst Hazardous combustion products Advice for firefighters Precautionary measures fire

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. For personal protection, see section 8 of the SDS.
Emergency procedures	Ventilate spillage area. Avoid breathing fume, mist, gas, vapours. Avoid contact with skin, eyes and clothing.
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.
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: Clean surface thoroughly to remove residual contamination. Wipe up with absorbent material (for example cloth). Spill area may be slippery. Never return spills in original containers for re-use.	
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".	
7.	SECTION 7: Handling and storage		

7. SECTION 7: Handling and storage

7.1. Precautions for safe handling

6.2.

Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure good ventilation of the work station.
Hygiene measures	Do not eat, drink or smoke when using this product. 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	Ground/bond container and receiving equipment.
Storage conditions	Store in a well-ventilated place. Keep out of frost.
Incompatible materials	Water. Amines. Alcohol.
Storage temperature	15 - 35 °C

7.3. Specific end use(s)

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limits.

DNEL: Derived no effect level

No data available	-	- (N/ 1	_
Components	Туре	Route	Value	Form
Oxydipropyl dibenzoate	Worker	Dermal	170 mg/kg dwt	Acute - local effects
(27138-31-4)	Worker	Dermal	10 mg/kg bodyweight/day	Long-term - systemic effects
. ,		Inhalation	8.8 mg/m ³	Long-term - systemic effects
	Consumer	Inhalation	8.7 mg/m ³	
	Consumer	Oral	•	Acute - systemic effects
			80 mg/kg bodyweight	Acute - systemic effects
		Dermal	80 mg/kg bw/day	Acute - local effects
		Oral	5 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	8.69 mg/m ³	Long-term - systemic effects
		Dermal	0.22 mg/kg bodyweight/day	Long-term - systemic effects
4,4'-methylenediphenyl	Worker	Inhalation	0.1 mg/m³	Acute - local effects
diisocyanate (101-68-8)		Inhalation	0.05 mg/m ³	Long-term - local effects
	Consumer	Inhalation	0.05 mg/m ³	Acute - local effects
		Inhalation	0.025 mg/m ³	Long-term - local effects
PNEC: Predicted no effect	concentration			
No data available Components	Туре	Route	Value	Form
	Type	Noute	Faiac	
Oxydipropyl dibenzoate	Not applicable	Freshwater	3.7 μg/L	
(27138-31-4)		Seawater	0.37 µg/L	
		Freshwater	37 µg/L	Intermittent release
		sediment	1.49 mg/kg dwt	Freshwater
		sediment	0.149 mg/kg dwt	Seawater
		Soil	1 mg/kg dwt	
		Oral	333 mg/kg food	Secondary Poisoning
		STP	10 mg/l	
4,4'-methylenediphenyl	Not applicable	Freshwater	1 mg/l	
diisocyanate (101-68-8)		Seawater	0.1 mg/l	
		Freshwater	10 mg/l	Intermittent release
		Soil	1 mg/kg dwt	
		STP	1 mg/l	
Exposure controls				
Appropriate engineering o	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 no been established, maintain airborne levels to an acceptable level		as. If applicable, use process ngineering controls to maintain mits. If exposure limits have not
Materials for protective cl	othing	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment		
Individual protection mean	sures, such as pe			
Eye protection			ty glasses. Wear security glasses	

Product code: Ford Internal Ref.: 195087

8.2.

Skin protection

Hand protection		EN 374. 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	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	No additional information available.		
Respiratory protectio	n	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. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust		
Skin and body protec	tion	Wear suitable protective clothing,Long sleeved protective clothing		
Thermal hazard protection Wear appropriate thermal protective clothing, when necessary.		rmal protective clothing, when necessary.		
Environmental exposure controls Avoid r		Avoid release to the e	oid release to the environment.	

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Paste.
Colour	Black.
Odour	Characteristic.
Odour threshold	No data available
рН	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
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	1.24 g/cm³ @ 20°C
Solubility	insoluble in water.
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	4606 mPa·s
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available
Other information	
VOC (EU)	0.3%
	0.0 /0

9.2.

10. SECTION 10: Stability and reactivity

10.1.	Reactivity	Reacts with water. Possible pressure build-up. Reacts with : Water. Alcohol. Amines.
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	Do not allow contact with water. humidity. Moisture.
10.5.	Incompatible materials	Water. Amines. alcohols.
10.6.	Hazardous decomposition products	During fire, gases hazardous to health may be formed. Isocyanates. On contact with humidity, releases: Carbon oxides (CO, CO2). pressure rise and possible bursting of container.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
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	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	Avoid prolonged exposure : Isocyanates. Exposure may produce an allergic reaction.

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

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

Adhesive H-PU1

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. 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).
Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	Do not contaminate ponds, waterways or ditches with chemical or used container.
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

Adhesive H-PU1	 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
Oxydipropyl dibenzoate	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
4,4'-methylenediphenyl diisocyanate	56. Methylenediphenyl diisocyanate (MDI)
4,4'-methylenediphenyl diisocyanate	56(a) Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate
Contains no substance on the REACH can	didate list
Contains no REACH Annex XIV substance	25
VOC (EU)	0.3 %
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.
Seveso Information	Not applicable
National regulations	
No additional information available.	

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

16. SECTION 16: Other information

Section 1 - Section 16.			
Abbreviations and acrony	ms		
ADN	European Agreement concerning the Internat Waterways	ional Carriage of Dangerous Goods by Inland	
ADR	European Agreement concerning the Internat	tional Carriage of Dangerous Goods by Road	
AGW	Occupational exposure limit value		
ATE	Acute Toxicity Estimate according to Regulat	ion (EC) 1272/2008 (CLP)	
BAM	Federal Institute for Materials Research and	Testing, Germany	
BAT	Maximum permissible concentration of biolog	ical 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 To	xic Substances	
CSA	Chemical safety assessment	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 C	Chemical Substances.	
ELINCS	European List of Notified Chemical Substanc	es.	
EN	European norm.		
ERC	ERC (Environmental Release category)		
EU	European Union		
GLP	Good Laboratory Practice.		
GHS	Globally Harmonized System of Classification	n and Labeling of Chemicals.	
GW/VL	Occupational exposure limit value.		
GW-kw/VL-cd	Occupational exposure limit value - short terr	n.	
GW-M/VL-M	Occupational exposure limit value – "Ceiling"		
IATA	International Air Transport Association		
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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		

Full text of H- and EUH-statements

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4.		
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3.		
Carc. 2	Carcinogenicity, Category 2.		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2.		
Resp. Sens. 1	Respiratory sensitisation, Category 1.		
Skin Irrit. 2	Skin corrosion/irritation, Category 2.		
Skin Sens. 1	Skin sensitisation, Category 1.		
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.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H335	May cause respiratory irritation.		
H351	Suspected of causing cancer.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H412	Harmful to aquatic life with long lasting effects.		
Classification and procedure [CLP]	e used to derive the classification for mixtures according to Regulation (EC) 1272/2008		

Resp. Sens. 1	H334	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:	Adhesive H-PU1	
Ford Int. Ref. No.:	195087	REVISION DATE: 10.12.2019
Involved Products	:	
Finiscode	Part number	Container Size:
. 1 1 935 159	FU7J M2G316 AA	310 ml
Part of Kit:		
2 053 958	FU7J T03863 AB	Windscreen Adhesive Kit - 1 Component H1-310
. 2	FU7J M2G316 BA	400 ml
Part of Kit:		
2 053 960	FU7J T03863 CB	Windscreen Adhesive Kit - 1 Component H1-400