



# SPOILER ADHESIVE COMPONENT B

## SAFETY DATA SHEET

according to Regulation (EU) 2015/830

ISSUE DATE: 14.01.2015

REVISION DATE: 02.05.2017

SUPERSEDES DATE: 14.01.2015

VERSION: 3.0

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

#### 1.1. Product identifier

Trade name	Spoiler Adhesive Component B
Product code	Ford Internal Ref.: 130445
SDS Number	7675
Product use	Professional use

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

Relevant identified uses	Adhesives, binding agents
Uses advised against	No additional information available.

#### 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			
Acute toxicity (inhal.), Category 4	H332		Harmful if inhaled.
Skin corrosion/irritation, Category 2	H315		Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319		Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334		May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317		May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351		Suspected of causing cancer.
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335		May cause respiratory irritation.
Specific target organ toxicity — Repeated exposure, Category 2	H373		May cause damage to organs through prolonged or repeated exposure.

## 2.2. Label elements

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

Hazard pictograms



Signal word

Danger

Contains

4,4'-methylenediphenyl diisocyanate; 4,4'-methylenediphenyl diisocyanate, oligomers

Hazard statements

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.

Precautionary statements

Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear eye protection, face protection, protective gloves.
P284	[In case of inadequate ventilation] wear respiratory protection.

Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.

## 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
4,4'-methylenediphenyl diisocyanate, oligomers	25686-28-6 01-2119457013-49-XXXX	10 - < 20	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	(C >= 0.1) Resp. Sens. 1, H334 (C >= 5) Skin Irrit. 2, H315 (C >= 5) Eye Irrit. 2, H319 (C >= 5) STOT SE 3, H335 (Note 2)(Note C)

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
4,4'-methylenediphenyl diisocyanate	101-68-8 202-966-0 615-005-00-9 01-2119457014-47-XXXX	1 - < 5	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	(C >= 0.1) Resp. Sens. 1, H334 (C >= 5) Eye Irrit. 2, H319 (C >= 5) Skin Irrit. 2, H315 (C >= 5) STOT SE 3, H335 (Note C)(Note 2 )

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

<b>General information</b>	IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
<b>Skin contact</b>	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eyes contact</b>	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.
<b>Ingestion</b>	Call a poison center or a doctor if you feel unwell.

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

<b>Symptoms/effects after inhalation</b>	May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Symptoms/effects after skin contact</b>	Irritation. May cause an allergic skin reaction.
<b>Symptoms/effects after eye contact</b>	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

<b>Suitable extinguishing media</b>	Water spray. Dry powder. Foam. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	Toxic fumes may be released.
--------------------------------------	------------------------------

### 5.3. Advice for firefighters

<b>Protection during firefighting</b>	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
---------------------------------------	--

## 6. SECTION 6: Accidental release measures

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

For non-emergency personnel

**Emergency procedures** Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

For emergency responders

**Protective equipment** Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. **Environmental precautions** Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Large Spills: Stop leak if safe to do so. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Flush residue with large amounts of water. Small spills: Wipe up with absorbent material (for example cloth). Clean surface thoroughly to remove residual contamination.

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

6.4. **Reference to other sections** For further information refer to section 13.

## 7. SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Precautions for safe handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

**Hygiene measures** Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions** Store locked up. Keep container tightly closed. Protect from moisture. Store in a dry, cool and well-ventilated place.

**Storage temperature** 5 - 35 °C

7.3. **Specific end use(s)** No additional information available.

## 8. SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### United Kingdom

Regulation	Substance	Type	Value
EH40. HSE	Di-"isononyl" phthalate (28553-12-0) Diisononyl phthalate	WEL TWA	5 mg/m <sup>3</sup>

#### **DNEL: Derived no effect level**

Components	Type	Route	Value	Form
Di-"isononyl" phthalate (28553-12-0)	Worker	Dermal	366 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	51.72 mg/m <sup>3</sup>	Long-term - systemic effects
	Consumer	Oral	4.4 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	15.3 mg/m <sup>3</sup>	Long-term - systemic effects
		Dermal	220 mg/kg bodyweight/day	Long-term - systemic effects

4,4'-methylenediphenyl diisocyanate (101-68-8)	Worker	Inhalation	0.1 mg/m <sup>3</sup>	Acute - local effects
		Inhalation	0.05 mg/m <sup>3</sup>	Long-term - local effects
	Consumer	Inhalation	0.05 mg/m <sup>3</sup>	Acute - local effects
		Inhalation	0.025 mg/m <sup>3</sup>	Long-term - local effects
4,4'-methylenediphenyl diisocyanate, oligomers (25686-28-6)	Worker	Inhalation	0.1 mg/m <sup>3</sup>	Acute - local effects
		Inhalation	0.05 mg/m <sup>3</sup>	Long-term - local effects
	Consumer	Inhalation	0.05 mg/m <sup>3</sup>	Acute - local effects
		Inhalation	0.025 mg/m <sup>3</sup>	Long-term - local effects

**PNEC: Predicted no effect concentration**

Components	Type	Route	Value	Form
Di-"isononyl" phthalate (28553-12-0)	Not applicable.	Soil	30 mg/kg dwt	
4,4'-methylenediphenyl diisocyanate (101-68-8)	Not applicable.	Freshwater	1 mg/l	Intermittent release
		Seawater	0.1 mg/l	
		Freshwater	10 mg/l	
		Soil	1 mg/kg dwt	
		STP	1 mg/l	
4,4'-methylenediphenyl diisocyanate, oligomers (25686-28-6)	Not applicable.	Freshwater	1 mg/l	Intermittent release
		Seawater	0.1 mg/l	
		Freshwater	10 mg/l	
		Soil	1 mg/kg dwt	
		STP	1 mg/l	

## 8.2. Exposure controls

**Appropriate engineering controls**

Ensure good ventilation of the work station.

**Materials for protective clothing**

No additional information available.

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

**Eye protection**

Safety glasses.

**Skin protection**

**Hand protection**

The protective gloves to be used must comply with the specification of EU directive 89/686/EC and the resultant standard EN374. The above given information is based on laboratory test in line with EN374. 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.
<b>Other protective measures</b>			No additional information available.
<b>Respiratory protection</b>			Wear respiratory protection
<b>Thermal hazard protection</b>			No additional information available.
<b>Environmental exposure controls</b>			Avoid 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	Sweet.
Odour threshold	No data available.
pH	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	> 100 °C (closed cup)
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	1.04 ASTM D1475
Solubility	No data available.
Log Pow	No data available.
Viscosity, kinematic	No data available.
Viscosity, dynamic	No data available.
Explosive properties	No data available.
Oxidising properties	No data available.
Explosive limits	No data available.

## 9.2. Other information

VOC (EU)	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	None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials	Acids. alcohols. Amines. Aqueous solution. Bases. Strong oxidizing agent. Moisture.
10.6. Hazardous decomposition products	During fire, gases hazardous to health may be formed.

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity Inhalation: Harmful if inhaled.

#### Mixture

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
Spoiler Adhesive Component B		ATE	Inhalation	1 - 5	mg/l/4h		(calculated value)

#### Substance

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
4,4'-methylenediphenyl		LC50	Inhalation	2.24	mg/l	rat	1h

diisocyanate (101-68-8)  
 4,4'-methylenediphenyl  
 diisocyanate, oligomers  
 (25686-28-6)

LC50 Inhalation 0,387 mg/l/4h rat  
 - 0,49

**Skin corrosion/irritation** Causes skin irritation.  
**Serious eye damage/irritation** Causes serious eye irritation.  
**Respiratory or skin sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.  
**Germ cell mutagenicity** Based on available data, the classification criteria are not met.  
**Carcinogenicity** Suspected of causing cancer.  
**Reproductive toxicity** Based on available data, the classification criteria are not met.  
**STOT-single exposure** May cause respiratory irritation.  
**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.

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

**Ecology - general** The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in 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

#### Spoiler Adhesive Component B

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

No additional information available.

## 13. SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste treatment methods** Dispose of contents/container in accordance with licensed collector's sorting instructions.

#### European List of Waste (LoW) code

08 05 01\*

waste isocyanates

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

### 14.1. UN number

**UN-No. (ADR)** Not applicable.

**UN-No. (IMDG)** Not applicable.

**UN-No. (IATA)** Not applicable.

**UN-No. (ADN)** Not applicable.

<b>UN-No. (RID)</b>	Not applicable.
<b>14.2. UN proper shipping name</b>	
Proper Shipping Name (ADR)	Not applicable.
Proper Shipping Name (IMDG)	Not applicable.
Proper Shipping Name (IATA)	Not applicable.
Proper Shipping Name (ADN)	Not applicable.
Proper Shipping Name (RID)	Not applicable.
<b>14.3. Transport hazard class(es)</b>	
<b>ADR</b>	
Transport hazard class(es) (ADR)	Not applicable.
<b>IMDG</b>	
Transport hazard class(es) (IMDG)	Not applicable.
<b>IATA</b>	
Transport hazard class(es) (IATA)	Not applicable.
<b>ADN</b>	
Transport hazard class(es) (ADN)	Not applicable.
<b>RID</b>	
Transport hazard class(es) (RID)	Not applicable.
<b>14.4. Packing group</b>	
Packing group (ADR)	Not applicable.
Packing group (IMDG)	Not applicable.
Packing group (IATA)	Not applicable.
Packing group (ADN)	Not applicable.
Packing group (RID)	Not applicable.
<b>14.5. Environmental hazards</b>	
Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available.
<b>14.6. Special precautions for user</b>	
<b>Overland transport</b>	
Not applicable.	
<b>Transport by sea</b>	
Not applicable.	
<b>Air transport</b>	
Not applicable.	
<b>Inland waterway transport</b>	
Not applicable.	
<b>Rail transport</b>	
Not applicable.	
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
Not applicable.	



## 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

Spoiler Adhesive Component B - 4,4'-methylenediphenyl diisocyanate, oligomers	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
4,4'-methylenediphenyl diisocyanate	56(a) Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate
4,4'-methylenediphenyl diisocyanate	56. Methylenediphenyl diisocyanate (MDI)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC (EU) 0 %

#### National regulations

No additional information available.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## 16. SECTION 16: Other information

#### 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.
CAO	Cargo Aircraft only.
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.
DMEL	Derived Minimal Effect level.
DNEL	Derived-No Effect Level.
EC50	Median effective concentration.
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.
PCA	PASSENGER AND CARGO AIRCRAFT.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

RID	Regulations concerning the International Carriage of Dangerous Goods by Rail.
RRN	REACH Registration Number.
SDS	Safety Data Sheet.
STP	Sewage treatment plant.
TLM	Median Tolerance Limit.
vPvB	Very Persistent and Very Bioaccumulative.

#### Full text of H- and EUH-statements

---

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4.
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.

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

---

Acute Tox. 4 (Inhalation)	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H335	Calculation method
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:** Spoiler Adhesive Component B  
**Ford Int. Ref. No.:** 130445

**Page:** 1/1  
**Print Date:** 02.05.2017

## Involved Products:

	<b>Finiscode</b>	<b>Part number</b>	<b>Container Size:</b>
1.		2U7J M2G376 CA	80 ml
<b>Part of Kit:</b>			
	1 219 837	2U7J M2G376 AA	Spoiler Adhesive Kit – 2 Component
2.		HU7J M2G376 CA	100 ml
<b>Part of Kit:</b>			
	2 176 271	HU7J M2G376 AA	Spoiler Adhesive Kit – 2 Component D2-100