



# METAL ADHESIVE H COMPONENT A

## SAFETY DATA SHEET

according to Regulation (EU) 2015/830

ISSUE DATE: 09.07.2015  
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### 1. SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name	Metal Adhesive H Component A
Product code	Ford Int. Ref.: 193355
SDS Number	5647
Product use	Professional 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

<b>Supplier</b>	<b>Distributor</b>
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

<b>Health hazards</b>	Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
	Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
	Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
<b>Environmental hazards</b>	Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411	Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

##### Hazard pictograms



##### Signal word

Warning

##### Contains

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700); 1,4-bis(2,3-epoxypropoxy)butane

##### Hazard statements

H315

Causes skin irritation.

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

P273	Avoid release to the environment.
P280	Wear eye protection, protective gloves.

##### Response

P391	Collect spillage.
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### 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
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	25068-38-6 500-033-5 603-074-00-8 01-2119456619-26- XXXX	40 – 60	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	( 5 ≤C ≤ 100) Eye Irrit. 2, H319 ( 5 ≤C ≤ 100) Skin Irrit. 2, H315
1,4-bis(2,3- epoxypropoxy)butane	2425-79-8 219-371-7 603-072-00-7 01-2119494060-45- XXXX	10 – 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	UVCB

UVCB: Substances of Unknown or Variable composition, Complex reaction products or Biological materials

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. Wash contaminated clothing before reuse.

#### 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 and soap. 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. Call a physician immediately.

#### Ingestion

Rinse mouth out with water. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. Drink plenty of water. 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 skin contact	Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	Causes serious eye irritation. Conjunctivitis.

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

Provide general supportive measures and 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 a water jet since it may cause the fire to spread.

#### 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, CO <sub>2</sub> ).
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#### 5.3. Advice for firefighters

Firefighting instructions	Move containers from fire area if it can be done without personal risk. Use standard firefighting procedures and consider the hazards of other involved materials.
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Wear recommended personal protective equipment.

### 6. SECTION 6: Accidental release measures

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

##### For non-emergency personnel

Protective equipment	Use personal protection recommended in Section 8 of the MSDS.
Emergency procedures	Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate personal protective equipment. Avoid contact with skin, eyes and clothing.

##### For emergency responders

Protective equipment	Do not attempt to take action without suitable protective equipment. Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
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#### 6.2. Environmental precautions

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

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

Methods for cleaning up	Cover with plastic sheet to prevent spreading. Mechanically recover the product. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas.
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#### 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

#### 7.1. Precautions for safe handling

Precautions for safe handling	Wear personal protective equipment. Avoid prolonged contact with eyes, skin and clothing. Ensure good ventilation of the work station.
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**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. Keep container tightly closed. Store in a dry place.

**Storage temperature**

15 – 35 °C

**7.3. Specific end use(s)**

Adhesives, sealants.

**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

Components	Type	Route	Value	Form
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	Worker	Dermal	8.33 mg/kg bodyweight/day	Acute - systemic effects
		Inhalation	12.25 mg/m <sup>3</sup>	Acute - local effects
		Dermal	8.33 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	12.25 mg/m <sup>3</sup>	Long-term - systemic effects
	Consumer	Dermal	3.571 mg/kg bodyweight	Acute - systemic effects
		Oral	0.75 mg/kg bodyweight	Acute - systemic effects
		Oral	0.75 mg/kg bodyweight/day	Long-term - systemic effects
		Dermal	3.571 mg/kg bodyweight/day	Long-term - systemic effects
1,4-bis(2,3-epoxypropoxy)butane (2425-79-8)	Worker	Dermal	6.66 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	4.7 mg/m <sup>3</sup>	Long-term - systemic effects
	Consumer	Oral	0.33 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	1.16 mg/m <sup>3</sup>	Long-term - systemic effects
		Dermal	3.33 mg/kg bodyweight/day	Long-term - systemic effects

**PNEC: Predicted no effect concentration**

No data available

Components	Type	Route	Value	Form
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	Not applicable	Freshwater	0.006 mg/l	
		Seawater	0.001 mg/l	
		Freshwater	0.018 mg/l	Intermittent release
		Seawater	0.002 mg/l	Intermittent release
		sediment	0.996 mg/kg dwt	Freshwater
		sediment	0.1 mg/kg dwt	Seawater
		Soil	0.196 mg/kg dwt	
		Oral	11 mg/kg food	Secondary Poisoning
1,4-bis(2,3-epoxypropoxy)butane (2425-79-8)	Not applicable	Freshwater	0.024 mg/l	
		Seawater	0.002 mg/l	
		Freshwater	0.24 mg/l	Intermittent release
		sediment	0.084 mg/kg dwt	Freshwater
		sediment	0.008 mg/kg dwt	Seawater
		Soil	0.003 mg/kg dwt	
		Oral	0.028 mg/kg food	Secondary Poisoning

STP 100 mg/l

## 8.2. Exposure controls

<b>Appropriate engineering controls</b>	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		
<b>Materials for protective clothing</b>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment		
<b>Individual protection measures, such as personal protective equipment (PPE)</b>			
<b>Eye protection</b>	Safety glasses. EN 166. Wear security glasses which protect from splashes		
<b>Skin protection</b>			
<b>Hand protection</b>	Protective gloves. EN 374. 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		
<b>Material</b>	<b>Permeation</b>	<b>Thickness (mm)</b>	<b>Comments</b>
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>	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		
<b>Skin and body protection</b>	Wear suitable protective clothing, Long sleeved protective clothing		
<b>Thermal hazard protection</b>	Wear appropriate thermal protective clothing, when necessary.		
<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

<b>Physical state</b>	Solid
<b>Appearance</b>	Paste.
<b>Colour</b>	Black.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Relative evaporation rate (butylacetate=1)</b>	No data available
<b>Melting point</b>	Not applicable
<b>Freezing point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Vapour pressure</b>	No data available
<b>Relative vapour density at 20 °C</b>	1 – 1.2
<b>Relative density</b>	No data available
<b>Solubility</b>	No data available
<b>Log Pow</b>	No data available
<b>Viscosity, kinematic</b>	No data available

Viscosity, dynamic	18000 – 23000 mPa·s @ 20°C
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

## 9.2. Other information

VOC (EU)	15.1 %
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## 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	Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidizing agent.
10.6. Hazardous decomposition products	During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO <sub>2</sub> ).

## 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
Metal Adhesive H Component A	(calculated value)	ATE	oral	> 2000	mg/kg		
	(calculated value)	ATE	Dermal	> 2000	mg/kg		
	(calculated value)	ATE	Inhalation	> 20	mg/l		

#### Substance

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
1,4-bis(2,3-epoxypropoxy)butane (2425-79-8)	(OECD 401 method)	LD50	oral	1163	mg/kg bw	rat	
		ATE	Dermal	1100	mg/kg		
		ATE	Inhalation	11	mg/l		

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/irritation** Causes serious eye irritation.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met

**Carcinogenicity** Based on available data, the classification criteria are not met

**Reproductive toxicity** Based on available data, the classification criteria are not met

**STOT-single exposure** 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

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecology - general

Toxic to aquatic life with long lasting effects.

#### Hazardous to the aquatic environment, short-term (acute)

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	aquatic invertebrates	Daphnia magna	EC50	~ 2 mg/L	48h	(OECD 202 method)
1,4-bis(2,3- epoxypropoxy)butane (2425-79-8)	Fish algae	Danio rerio Pseudokirc hnerella subcapitat a	LC50 ErC50	19.8 mg/L 0,82 mg/L	96 h 72 h	(OECD 203 method)

### 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

#### Metal Adhesive H Component A

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

<b>14.1. UN number</b>	
UN-No. (ADR)	3077
UN-No. (IMDG)	3077
UN-No. (IATA)	3077
UN-No. (ADN)	3077
UN-No. (RID)	3077
<b>14.2. UN proper shipping name</b>	
Proper Shipping Name (ADR)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))
Proper Shipping Name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))
Proper Shipping Name (IATA)	Environmentally hazardous substance, solid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))
Proper Shipping Name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))
Proper Shipping Name (RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))
<b>14.3. Transport hazard class(es)</b>	
<b>ADR</b>	
Transport hazard class(es) (ADR)	9
Danger labels (ADR)	9
<b>IMDG</b>	
Transport hazard class(es) (IMDG)	9
Danger labels (IMDG)	9
<b>IATA</b>	
Transport hazard class(es) (IATA)	9
Hazard labels (IATA)	9
<b>ADN</b>	
Transport hazard class(es) (ADN)	9
Danger labels (ADN)	9
<b>RID</b>	
Transport hazard class(es) (RID)	9
Danger labels (RID)	9
<b>14.4. Packing group</b>	
Packing group (ADR)	III
Packing group (IMDG)	III
Packing group (IATA)	III
Packing group (ADN)	III
Packing group (RID)	III
<b>14.5. Environmental hazards</b>	
Dangerous for the environment	Yes
Marine pollutant	Yes
Other information	No supplementary information available.



## 14.6. Special precautions for user

### Overland transport

Classification code (ADR)	M7
Special provisions (ADR)	274, 335, 375, 601
Limited quantities (ADR)	5kg
Packing instructions (ADR)	P002, IBC08, LP02, R001
Hazard identification number (Kemler No.)	90
Tunnel restriction code (ADR)	-
EAC code	2Z

### Transport by sea

Special provisions (IMDG)	274, 335, 966, 967, 969
Limited quantities (IMDG)	5 kg
Packing instructions (IMDG)	LP02, P002
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F
Stowage category (IMDG)	A

### Air transport

PCA Excepted quantities (IATA)	E1
PCA Limited quantities (IATA)	Y956
PCA limited quantity max net quantity (IATA)	30kgG
PCA packing instructions (IATA)	956
PCA max net quantity (IATA)	400kg
CAO packing instructions (IATA)	956
CAO max net quantity (IATA)	400kg
Special provisions (IATA)	A97, A158, A179, A197
ERG code (IATA)	9L

### Inland waterway transport

Classification code (ADN)	M7
Special provisions (ADN)	274, 335, 375, 601
Limited quantities (ADN)	5 kg
Carriage permitted (ADN)	T* B**

### Rail transport

Classification code (RID)	M7
Special provisions (RID)	274, 335, 375, 601
Packing instructions (RID)	P002, IBC08, LP02, R001
Hazard identification number (RID)	90

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700)

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

reaction product: bisphenol-A-  
(epichlorhydrin); epoxy resin (number  
average molecular weight ≤ 700)

reaction product: bisphenol-A-  
(epichlorhydrin); epoxy resin (number  
average molecular weight ≤ 700)

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

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

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### VOC (EU)

15.1 %

#### Other information, restriction and prohibition regulations

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. Directive 92/85/EEC on  
the safety and health of pregnant workers and workers who have recently given  
birth or are breastfeeding as amended. For details, refer to section 3 and 8.

#### Seveso Information

E2 Hazardous to the Aquatic Environment in Category Chronic 2

#### National regulations

No additional information available.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. SECTION 16: Other information

#### Indication of changes

Section 2. Section 3.

#### 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
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	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-kw/VL-cd	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 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

**Classification according to Regulation (EC) No. 1272/2008**

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 2	H411

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

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4.
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4.
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4.
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2.
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2.
Skin Irrit. 2	Skin corrosion/irritation, Category 2.
Skin Sens. 1	Skin sensitisation, Category 1.
H302	Harmful if swallowed..
H312	Harmful in contact with skin..

H315	Causes skin irritation..
H317	May cause an allergic skin reaction..
H319	Causes serious eye irritation..
H332	Harmful if inhaled..
H411	Toxic to aquatic life with long lasting effects..
H412	Harmful to aquatic life with long lasting effects..

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

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Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 2	H411	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:** Metal Adhesive H Component A

**Ford Int. Ref. No.:** 193355

REVISION DATE: 19.02.2020

**Involved Products:**

Finiscode	Part number	Container Size:
1	FU7J M2G400 AA	130 ml
<b>Part of Kit:</b> 1 947 915	FU7J M11P47 AA	Metal Adhesive Kit H – 2 Components