METAL ADHESIVE H COMPONENT B



according to Regulation (EU) 2015/830



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VERSION: 2.1

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

1.1. Product identifier

Trade name Metal Adhesive H Component B **Product code** Ford Internal Ref.: 193356

SDS Number 5654

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

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 (oral), Category 4		H302	Harmful if swallowed.
	Skin corrosion/irritation, Category 1B	H314	Causes severe skin burns and eye damage.
	Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
	Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
	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 (kidneys, liver) through prolonged or repeated exposure (oral).
Environmental hazards	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 Danger

Contains Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer with ammonia;

Formaldehyde, polymer with benzenamine, hydrogenated; 4,4'-

methylenebis(cyclohexylamine); fatty acids, C18-unsatd., dimers, reaction

products with polyethylenepolyamines

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

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

H373 May cause damage to organs (kidneys, liver) through prolonged or repeated

exposure (oral).

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P260 Do not breathe Aerosol.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

Response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER, a doctor.

P391 Collect spillage.

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
Poly(oxy-1,4-butanediyl), alpha-hydro-omega-	960525-56-8 680-355-1	20 - 40	Acute Tox. 4 (Oral), H302	
hydroxy-, polymer with ammonia			Skin Corr. 1C, H314	
			STOT SE 3, H335 Aquatic Chronic 3, H412	

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
Formaldehyde, polymer with benzenamine, hydrogenated	135108-88-2 603-894-6 01-2119983522-33- XXXX	10 - 20	Acute Tox. 3 (Oral), H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 3, H412	UVCB
4,4'- methylenebis(cyclohexyla mine)	1761-71-3 217-168-8 01-2119541673-38- XXXX	10 - 20	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	9046-10-0 618-561-0 01-2119557899-12- XXXX	10 - 20	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	UVCB
fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1 614-452-7	10 - 20	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	UVCB
1,3-bis[3- (dimethylamino)propyl]ure a	52338-87-1 257-861-2 01-2120781639-37- XXXX	1-<5	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	
3- aminopropyldimethylamine	109-55-7 203-680-9 612-061-00-6 01-2119486842-27- XXXX	1 - < 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335	
Amines, polyethylenepoly-, triethylenetetramine fraction	90640-67-8 292-588-2 01-2119487919-13- XXXX	1- < 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	

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.

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

advice/attention.

Skin contact: Take off contaminated clothing and wash it before reuse. Wash immediately with

plenty of water. Get medical advice/attention.

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 **Eves contact**

rinsing. Call a physician immediately.

Do not induce vomiting. Rinse mouth thoroughly. Get immediate medical Ingestion

advice/attention.

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

Symptoms/effects after inhalation Inhalation may cause irritation (cough, short breathing, difficulty in breathing). Causes severe skin burns and eye damage. May cause an allergic skin reaction. Symptoms/effects after skin contact

irritation (itching, redness, blistering).

Symptoms/effects after eye contact Causes serious eye damage. Conjunctivitis. Eye irritation.

Harmful if swallowed. May cause damage to organs through prolonged or Symptoms/effects after ingestion

repeated exposure. Abdominal pain, nausea. Vomiting. Diarrhea.

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

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. **SECTION 5: Firefighting measures**

5.1. **Extinguishing media**

Suitable extinguishing media Foam. carbon dioxide (CO2), powder, water spray.

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 Toxic fumes may be released. Carbon oxides (CO, CO2). Nitrogen oxides.

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

Protection during firefighting 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

Protective equipment Wear appropriate protective equipment and clothing during clean-up. Use

personal protection recommended in Section 8 of the MSDS.

Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with **Emergency procedures**

skin, eyes and clothing. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and

clothing during clean-up.

For emergency responders

Protective equipment Wear recommended personal protective equipment. For personal protection, see

section 8 of the SDS.

Emergency procedures Keep unnecessary personnel away. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. 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

For containment Stop the flow of material, if this is without risk. Move containers from fire area if it

can be done without personal risk.

Methods for cleaning up Mechanically recover the product.

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

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

considerations".

7. SECTION 7: Handling and storage

Reference to other sections

7.1. Precautions for safe handling

6.4.

Precautions for safe handlingEnsure good ventilation of the work station. Wear personal protective equipment.

Avoid release to the environment. Avoid contact with skin, eyes and clothing. Protect material from direct sunlight. Observe good industrial hygiene practices.

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. Observe

good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Technical measuresEnsure adequate ventilation, especially in confined areas.Storage conditionsStore locked up. Store in a dry, cool and well-ventilated place.Incompatible materialsAlkalines. Strong oxidizing agent. Strong reducing agents.

Storage temperature 15 – 35 °C

7.3. Specific end use(s) Adhesives, sealants.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

United Kingdom

Regulation	Substance	Туре	Value
EH40. HSE	Talc (Mg3H2(SiO3)4) (14807-	WEL TWA	1 mg/m³ respirable dust
	96-6)		
	Tala		

DNEL: Derived no effect level

No data available

Components	Туре	Route	Value	Form
Formaldehyde, polymer with benzenamine, hydrogenated	Worker	Dermal Inhalation	6 mg/kg bodyweight/day 2 mg/m³	Acute - systemic effects Acute - systemic effects
(135108-88-2)		Dermal Inhalation	2 mg/kg bodyweight/day 0.2 mg/m³	Long-term - systemic effects Long-term - systemic effects
4,4'- methylenebis(cyclohexylami ne) (1761-71-3)	Worker Consumer	Dermal Inhalation Oral Inhalation Dermal	0.1 mg/kg bodyweight/day 1 mg/m³ 0.06 mg/kg bodyweight/day 0.21 mg/m³ 0.06 mg/kg bodyweight/day	Long-term - systemic effects Long-term - systemic effects Long-term - systemic effects Long-term - systemic effects Long-term - systemic effects

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0)	Worker	Dermal Inhalation	2.5 mg/kg bodyweight/day 1.36 mg/m³	Long-term - systemic effects Long-term - systemic effects
1,3-bis[3- (dimethylamino)propyl]urea (52338-87-1)	Worker	Dermal Inhalation Dermal Inhalation	4.8 mg/kg bw/day 17.4 mg/m³ 2.33 mg/kg bw/day 5.8 mg/m³	Acute - systemic effects Acute - systemic effects Long-term - systemic effects Long-term - systemic effects
	Consumer	Oral	0.833 mg/kg bw/day	Long-term - systemic effects
3-aminopropyldimethylamine (109-55-7)	Worker	Inhalation Inhalation	1.2 mg/m³ 1.2 mg/m³	Long-term - systemic effects Long-term - local effects
Amines, polyethylenepoly-, triethylenetetramine fraction (90640-67-8)	Worker Consumer	Inhalation Oral Inhalation	0.054 mg/m³ 0.14 mg/kg bodyweight/day 0.096 mg/m³	Long-term - systemic effects Long-term - systemic effects Long-term - systemic effects
PNEC: Predicted no effect of No data available	concentration		3	, , , , , , , , , , , , , , , , , , ,
Components	Туре	Route	Value	Form
Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)	Not applicable	Freshwater Seawater Freshwater sediment sediment Soil STP	0.015 mg/l 0.002 0.15 mg/l 15 mg/kg dwt 1.5 mg/kg dwt 1.8 µg/kg dw 1.9 mg/l	Intermittent release Freshwater Seawater
4,4'- methylenebis(cyclohexylami ne) (1761-71-3)	Not applicable	Freshwater Seawater Freshwater sediment sediment Soil STP	0.08 mg/l 0.008 mg/l 0.08 mg/l 137 mg/kg dwt 13.7 mg/kg dwt 27.2 mg/kg dwt 3.2 mg/l	Intermittent release Freshwater Seawater
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0)	Not applicable	Freshwater Seawater Freshwater sediment sediment Soil Oral STP	0.015 mg/l 0.014 mg/l 0.15 mg/l 0.132 mg/kg dwt 0.125 mg/kg dwt 0.018 mg/kg dwt 6.93 kg/kg food 7.5 mg/l	Intermittent release Freshwater Seawater Secondary Poisoning
1,3-bis[3- (dimethylamino)propyl]urea (52338-87-1)	Not applicable	Freshwater Seawater Freshwater Seawater sediment sediment	93 μg/L 9.3 μg/L 0.93 mg/l 93 μg/L 0.372 mg/kg dwt 37.2 μg/kg dw	Intermittent release Intermittent release Freshwater Seawater

		Soil	19.8 µg/kg dw	
		STP	1.8 mg/l	
3-aminopropyldimethylamine (109-55-7)	Not applicable	Freshwater Seawater Freshwater	0.073 mg/l 0.007 mg/l 0.34 mg/l	Intermittent release
		sediment	0.735 mg/kg dwt	Freshwater
		sediment	0.073 mg/kg dwt	Seawater
		Soil	0.104 mg/kg dwt	
		STP	69.5 mg/l	
Amines, polyethylenepoly-, triethylenetetramine fraction	Not applicable	Freshwater Seawater	0.027 mg/l 0.003 mg/l	
(90640-67-8)		Freshwater	0.2 mg/l	Intermittent release
		Seawater	0.02 mg/l	Intermittent release
		sediment	8.572 mg/kg dwt	Freshwater
		sediment	0.857 mg/kg dwt	Seawater
		Soil	1.25 mg/kg dwt	
		STP	0.13 mg/l	

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level

Materials for protective clothing

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

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

Eye protection

Safety glasses with side shields. EN 166.

Skin protection

Hand protection

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

		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		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.				
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. Extra personal protection: A/P2 filter respirator for				

organic vapour and harmful dust

Skin and body protection Wear suitable protective clothing, Long sleeved protective clothing, EN 14605, EN

ISO 13982

Thermal hazard protection Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls Avoid release to the environment. Inform appropriate managerial or supervisory

personnel of all environmental releases.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid Appearance Paste. Colour Grey. Odour Characteristic. **Odour threshold** No data available рΗ No data available Relative evaporation rate (butylacetate=1) No data available No data available **Melting point** No data available Freezing point **Boiling point** No data available Not applicable Flash point Auto-ignition temperature No data available No data available **Decomposition temperature** Flammability (solid, gas) No data available Vapour pressure No data available

Density 0.9 – 1.1 g/cm³ @ 20°C (68 °F)

SolubilityNo data availableLog PowNo data availableViscosity, kinematicNo data availableViscosity, dynamic1000 – 3000 mPa·sExplosive propertiesNo data availableOxidising propertiesNo data availableExplosive limitsNo data available

9.2. Other information

VOC (EU) 0 %

10. SECTION 10: Stability and reactivity

Relative vapour density at 20 °C

Relative density

10.1. Reactivity The product is non-reactive under normal conditions of use, storage and

No data available

No data available

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 Refer to Section 10 on Incompatible Materials.

10.5. Incompatible materials Strong oxidizing agents.

Under normal conditions of storage and use, hazardous decomposition products should not be produced. During fire, gases hazardous to health may be formed.

Unit

Species

Remarks

11. **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Harmful if swallowed. Acute toxicity

Type

Method

wixtu	е
Name	

Hume	Mictiloa	i ypc	Exposure route	Value	Oilit	Openico	Kemarks
Metal Adhesive H Component B	(calculated value)	ATE	oral	300 - < 2000	mg/kg bw		
	(calculated value)	ATE	Dermal	> 2000	mg/kg bw		
Substance							
Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
Poly(oxy-1,4- butanediyl), alpha- hydro-omega-hydroxy-, polymer with ammonia (960525-56-8)	(acc. CLP 3.1.2)	ATE	oral	500	mg/kg bw		
Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)	(OECD 423 method)	LD50	oral	300	mg/kg bw	rat	
4,4'- methylenebis(cyclohexy lamine) (1761-71-3)	EPA OPP 81-1	LD50	oral	380	mg/kg bw	rat	
3- aminopropyldimethylami	(OECD 401 method)	LD50	oral	410	mg/kg bw	rat	
ne (109-55-7)	(acc. CLP 3.1.2)	ATE	Dermal	1100	mg/kg bw		
Amines, polyethylenepoly-,	(OECD 401 method)	LD50	oral	1716	mg/kg bw	rat	
triethylenetetramine fraction (90640-67-8)	(OECD 402 method)	LD50	Dermal	1465	mg/kg bw	rabbit	

Exposure route Value

Skin corrosion/irritation Causes severe skin burns. Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation May cause an allergic skin reaction. Amines. Exposure may produce an allergic

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 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

Potential adverse human health effects Exposure may produce an allergic reaction. Information on Effects: refer to section 4.

and symptoms

12. **SECTION 12: Ecological information**

12.1. Toxicity

Toxic to aquatic life with long lasting effects. Ecology - general

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

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
Formaldehyde, polymer	Fish		LC50	63 mg/L	96 h	
with benzenamine,	aquatic	Daphnia	EC50	15.4 mg/L	48 h	

hydrogenated (135108- 88-2)	invertebrates	magna				
Reaction products of di- , tri- and tetra- propoxylated propane- 1,2-diol with ammonia (9046-10-0)	Fish	Cyprinodo n variegatus (sheepshe ad minnow)	LC50	772,14 mg/L	96 h	(OECD 203 method)
	aquatic invertebrates	Daphnia magna	EC50	80 mg/L	48 h	(OECD 202 method)
1,3-bis[3- (dimethylamino)propyl]u rea (52338-87-1)	Fish	Oryzias latipes (Ricefish)	LC50	> 1000 mg/L	96 h	(OECD 203 method)
	aquatic invertebrates	Daphnia magna	EC50	93 mg/L	48 h	(OECD 202 method)
	algae	Pseudokirc hnerella subcapitat a	EC50	> 100 mg/L	72 h	(OECD 201 method)
	microorganisms	activated sludge	EC50	820 mg/L	3 h	(OECD 209 method)
Amines, polyethylenepoly-,	Fish	Pimephale s promelas	LC50	330 mg/L	96 h	
triethylenetetramine fraction (90640-67-8)	aquatic invertebrates	Daphnia magna	EC50	31.1 mg/L	48 h	

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 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

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this product.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) Empty containers or liners may retain some product residues. This material and

its container must be disposed of in a safe manner (see: Disposal instructions).

Dispose of in accordance with local regulations.

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

site. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not allow to enter drains or water courses. 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

Product/Packaging disposal

recommendations

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved

waste handling site for recycling or disposal.

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 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

14.1. UN number

UN-No. (ADR)	3259
UN-No. (IMDG)	3259
UN-No. (IATA)	3259
UN-No. (ADN)	3259
UN-No. (RID)	3259

14.2. UN proper shipping name

Proper Shipping Name (ADR) AMINES, SOLID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine);

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with

ammonia)

Proper Shipping Name (IMDG) AMINES, SOLID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine);

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with

ammonia)

Proper Shipping Name (IATA) Amines, solid, corrosive, n.o.s. (4,4'-methylenebis(cyclohexylamine); Reaction

products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia)

Proper Shipping Name (ADN) AMINES, SOLID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine);

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with

ammonia)

Proper Shipping Name (RID) AMINES, SOLID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine);

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with

ammonia)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) 8
Danger labels (ADR) 8

IMDG

Transport hazard class(es) (IMDG) 8
Danger labels (IMDG) 8

IATA

Transport hazard class(es) (IATA) 8
Hazard labels (IATA) 8

ADN

Transport hazard class(es) (ADN) 8
Danger labels (ADN) 8

RID

Transport hazard class(es) (RID) 8
Danger labels (RID) 8

14.4. Packing group

Packing group (ADR) || Packing group (IMDG) || Packing group (IATA) || Packing group (ADN) || Packing group (RID) ||

14.5. Environmental hazards

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)C8Special provisions (ADR)274Limited quantities (ADR)1kg

Packing instructions (ADR) P002, IBC08

Hazard identification number (Kemler No.) 80
Tunnel restriction code (ADR) E
EAC code 2X

Transport by sea

Special provisions (IMDG)274Packing instructions (IMDG)P002EmS-No. (Fire)F-AEmS-No. (Spillage)S-BStowage category (IMDG)A

Air transport

PCA Excepted quantities (IATA) E2
PCA Limited quantities (IATA) Y844
PCA limited quantity max net quantity 5kg

(IATA)

PCA packing instructions (IATA) 859
PCA max net quantity (IATA) 15kg
CAO packing instructions (IATA) 863
CAO max net quantity (IATA) 50kg
Special provisions (IATA) A3, A803

ERG code (IATA) 8L

Inland waterway transport

Classification code (ADN) C8
Special provisions (ADN) 274
Limited quantities (ADN) 1 kg

Rail transport

 Classification code (RID)
 C8

 Special provisions (RID)
 274

 Limited quantities (RID)
 1kg

Packing instructions (RID) P002, IBC08

Hazard identification number (RID) 80

Revision date: 3/16/2020

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

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

3-aminopropyldimethylamine

3(a) 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 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F

Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer with ammonia; Formaldehyde, polymer with benzenamine, hydrogenated; 4,4'-methylenebis(cyclohexylamine); Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia; fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines; 1,3-bis[3-(dimethylamino)propyl]urea; 3-aminopropyldimethylamine; Amines, polyethylenepoly-, triethylenetetramine fraction

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

Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer with ammonia; Formaldehyde, polymer with benzenamine, hydrogenated; Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia; fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines; 1,3-bis[3-(dimethylamino)propyl]urea; Amines, polyethylenepoly-, triethylenetetramine fraction

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-aminopropyldimethylamine

40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

VOC (EU) 0 %

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.

E2 Hazardous to the Aquatic Environment in Category Chronic 2

Seveso Information National regulations

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

IECSC

Abbreviations and ac	ronyms
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%.

IMDG International Maritime Dangerous Goods ISO International Standards Organization.

IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal Concentration 50%.

LCLo Lowest published lethal concentration.

LD50 Lethal Dose 50%.

LOAEL Lowest Observed Adverse Effect Level
LOEC Lowest observable effect concentration.

LOEL Lowest observable effect level.

LQ Limited quantities

TRK-Kzw Threshold limit value - Short-term exposure limit / Technical reference concentration - short-

time value, Austria.

MAK-Mow Maximum allowable workplace concentration – instantaneous value, Austria.

MAK-Tmw, TRK-Tmw Maximum allowable workplace concentration – daily mean value / Technical standard

concentration - daily mean value, Austria.

MAK Threshold limit values Germany.

MARPOL International Convention for the Prevention of Pollution from Ships.

NOAEC No-Observed Adverse Effect Concentration

NOAEL No-Observed Adverse Effect Level
NOEC No-Observed Effect Concentration

NOEL no-observed-effect level

OECD Organisation for Economic Co-operation and Development

OEL Occupational Exposure Limits

PBT Persistent Bioaccumulative Toxic

PC (Chemical product PC (Chemical product category)

category)

PNEC Predicted No-Effect Concentration

POCP Photochemical ozone creation potential.

POP Persistent Organic Pollutants
PPE Personal protective equipment

Process category Process category

REACH Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006

concerning Registration, Evaluation Authorization and Restriction of Chemicals).

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SCL Specific concentration limit.

STEL Short-term Exposure Limit

STP Sewage treatment plant

SU (Sector of use) SU (Sector of use)

SVHC Substance of Very High Concern.

TLV Threshold Limit Value

TRGS Technical Rules for Hazardous Substances (German Standard).

TWA Time Weighted Average

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

materials

VbF Ordinance on Flammable Liquids, Austria

VOC Volatile organic compounds

vPvB Very Persistent and Very Bioaccumulative

WEL-TWA Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted

average)reference period).

WEL-STEL Workplace Exposure Limit-Short term exposure limit (15-minute reference period).

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

OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006...

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

the packaging

Classification according to Regulation

(EC) No. 1272/2008

Acute Tox. 4 (Oral)	H302	
Skin Corr. 1B	H314	
Eye Dam. 1	H318	
Skin Sens. 1	H317	
STOT SE 3	H335	
STOT RE 2	H373	
Aquatic Chronic 2	H411	

Full text of H- and FUH-statements

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3.
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4.
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4.
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1.
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 Dam. 1	Serious eye damage/eye irritation, Category 1.
Flam. Liq. 3	Flammable liquids, Category 3.
Skin Corr. 1B	Skin corrosion/irritation, Category 1B.
Skin Corr. 1C	Skin corrosion/irritation, Category 1C.
Skin Irrit. 2	Skin corrosion/irritation, Category 2.
Skin Sens. 1	Skin sensitisation, Category 1.
Skin Sens. 1B	Skin sensitisation, category 1B.
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2.
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects..
 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]

Acute Tox. 4 (Oral)	H302	Calculation method
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Expert judgment
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	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.





Product Name: Metal Adhesive H Component B

Ford Int. Ref. No.: 193356 REVISION DATE: 16.03.2020

Involved Products:

Finiscode Part number Container Size:

. 1 FU7J M2G400 BA 65 ml

Part of Kit:

1 947 915 FU7J M11P47 AA Metal Adhesive Kit H – 2 Component