#### **ADHESIVE H-PU2**

#### **SAFETY DATA SHEET**



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

ISSUE DATE: 18.12.2014 REVISION DATE: 10.03.2021 SUPERSEDES DATE: 15.01.2020

VERSION: 4.0

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

#### 1.1. Product identifier

Trade name Adhesive H-PU2

**Product code** Ford Internal Ref: 183164

SDS Number 8058

Product use Professional use

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

Relevant identified uses

Use of the substance/mixture adhesives

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** Respiratory sensitisation, Category 1 H334 May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

#### 2.2. Label elements

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

Hazard pictograms



Signal word Danger

**Contains** 4,4'-methylenediphenyl diisocyanate

**Hazard statements** 

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

Prevention

P261 Avoid breathing vapours.

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, a doctor.

Supplemental hazard information

Extra phrases As from 24 August 2023 adequate training is required before industrial or

professional use.

#### 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
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	$(0.1 \le C \le 100)$ Resp. Sens. 1, H334 $(5 \le C \le 100)$ Eye Irrit. 2, H319 $(5 \le C \le 100)$ Skin Irrit. 2, H315 $(5 \le C \le 100)$ 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

General information Call a poison center or a doctor if you feel unwell.

Inhalation Remove person to fresh air and keep comfortable for breathing. Give oxygen or

artificial respiration if necessary. If experiencing respiratory symptoms: Call a

poison center or a doctor.

**Skin contact:** Wash skin with plenty of water and soap. Remove contaminated clothing and

hoes.

**Eyes contact** 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.

Ingestion Rinse mouth out with water. Drink plenty of water. Call a POISON

CENTER/doctor if you feel unwell.

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

Symptoms/effects after inhalation Inhalation may cause irritation, cough, shortness of breath. May cause allergy or

asthma symptoms or breathing difficulties if inhaled.

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

Treat symptomatically.

#### 5. SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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.

5.3. Advice for firefighters

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**Use personal protective equipment as required.

Emergency procedures Ventilate spillage area. Avoid breathing dust, fume, mist, vapours.

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. Do not flush into surface water or sewer

system.

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

For containment Stop leak without risks if possible.

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. Never return

spills in original containers for re-use.

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

6.4. Reference to other sections For further information refer to section 8: "Exposure controls/personal

protection". For further information refer to section 13.

### 7. SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Precautions for safe handling**Ensure good ventilation of the work station. Wear personal protective equipment.

Avoid breathing dust, fume, mist, vapours.

**Hygiene measures**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 in a well-ventilated place. Keep cool. Protect from moisture.

Storage temperature 5-25 °C

## 7.3. Specific end use(s)

# 8. SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Regulation	Substance		Туре	Value
EH40. HSE	Calcium carbonate Calcium carbonate	(471-34-1)	WEL TWA (OEL TWA) [1]	10 mg/m³ inhalable dust 4 mg/m³ respirable 4 mg/m³ Limestone, respirable 10 mg/m³ Limestone, total inhalable 4 mg/m³ Marble, respirable 10 mg/m³ Marble, total inhalable
			WEL TWA (OEL TWA) [2]	4 mg/m³ respirable
EH40/2005 (Fourth	Carbon black (1333	3-86-4)	WEL TWA (OEL TWA) [1]	3.5 mg/m³
edition, 2020). HSE	Carbon black		WEL STEL (OEL STEL)	7 mg/m³
<b>DNEL: Derived no effec</b> No data available	ct level			
Components	Туре	Route	Value	Form
Oxydipropyl dibenzoate	Worker	Dermal	170 mg/kg dwt	Acute - local effects
(27138-31-4)		Dermal	10 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	8.8 mg/m³	Long-term - systemic effects
	Consumer	Inhalation	8.7 mg/m³	Acute - systemic effects
		Oral	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 effect
		Inhalation	8.69 mg/m³	Long-term - systemic effect
		Dermal	0.22 mg/kg bodyweight/day	y Long-term - systemic effect
4,4'-methylenediphenyl	Worker	Inhalation	0.1 mg/m³	Acute - local effects
diisocyanate (101-68-8)		Inhalation	0.05 mg/m³	Long-term - local effects
	Consumer	Inhalation	0.05 mg/m³	Acute - local effects
		Inhalation	0.025 mg/m³	Long-term - local effects
PNEC: Predicted no eff	fect concentration			
No data available				
Components	Туре	Route	Value	Form
Oxydipropyl dibenzoate	Not applicable	Freshwate	. 27.49/	
(27138-31-4)	Not applicable	Seawater	r 3.7 μg/L 0.37 μg/L	
,		Freshwater		Intermittent release
		sediment	r 37 μg/L 1.49 mg/kg dwt	Freshwater
			• •	
		sediment	0.149 mg/kg dwt	Seawater
		Soil	1 mg/kg dwt	Cocandon, Daisanina
		Oral	333 mg/kg food	Secondary Poisoning
		STP	10 mg/l	
4,4'-methylenediphenyl	Not applicable	Freshwater	r 1 mg/l	
diisocyanate (101-68-8)		Seawater	0.1 mg/l	
		Freshwater		Intermittent release
		Soil	1 mg/kg dwt	

STP 1 mg/l

#### 8.2. **Exposure controls**

Good general ventilation (typically 10 air changes per hour) should be used. Appropriate engineering controls 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 protection equipment should be chosen according to the CEN

standards and in discussion with the supplier of the personal protective

equipment

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

Eye protection Safety glasses. EN 166.

Skin protection

Hand protection 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

		by the recommended	giove				
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 n	Other protective measures		No additional information available.				
Respiratory protection		[In case of inadequate ventilation] wear respiratory protection. Specifications and technical informations on the product may be obtained by your dealer					
Skin and body protection		Wear suitable protective clothing					
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.					
Consumer exposure of	controls	handling the material	personal hygiene measures, such as washing after and before eating, drinking, and/or smoking. Routinely drotective equipment to remove contaminants.				

#### 9. SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties 9.1.

Physical state	Solid
Appearance	Pasty.
Colour	Black.
Odour	characteristic.
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	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	1.2 g/cm³ @ 20°C

**Solubility** Insoluble.

Log PowNo data availableViscosity, kinematicNo data availableViscosity, dynamic3500 Pa·sExplosive propertiesNo data availableOxidising propertiesNo data availableExplosive limitsNo data available

9.2. Other information

VOC (EU) 0 %

#### 10. SECTION 10: Stability and reactivity

**10.1. Reactivity** Can react with. alcohols. Amine. Water.

**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 humidity.

**10.5.** Incompatible materials (see section(s) : Reactivity.

10.6. Hazardous decomposition products Thermal decomposition generates: Isocyanates. Carbon dioxide is generated

under contact with moisture, leading to pressure in the cans. Danger of cans

bursting!.

#### 11. SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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

Substance

Name	Method	Туре	Exposure route	Value	Unit	Species	Remarks
4,4'-methylenediphenyl diisocyanate (101-68-8)	(acc. CLP 3.1.2)	ATE	Inhalation	11	mg/l/4h		vapours
	(acc. CLP 3.1.2)	ATE	Inhalation	1,5	mg/l/4h		dust, mist
Skin corrosion/irritatio	n		Based on available	data, the c	lassification	criteria are n	ot 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 c	classification	criteria are n	ot met

#### 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-PU2

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

Regional legislation (waste) Dispose of in accordance with local regulations.

Empty containers or liners may retain some product residues. This material and Waste treatment methods

its container must be disposed of in a safe manner (see: Disposal instructions). Collect and reclaim or dispose in closed containers at licensed waste disposal site. Dispose of contents/container in accordance with

local/regional/national/international regulations. Dispose of contents/container in

accordance with licensed collector's sorting instructions.

Do not allow this material to drain into sewers/water supplies. Do not Sewage disposal recommendations

contaminate ponds, waterways or ditches with chemical or used container. Empty containers should be taken to an approved waste handling site for

recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

European List of Waste (LoW) code

Product/Packaging disposal

recommendations

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 06 mixed packaging

#### 14. SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID 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

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 candidate list

Contains no REACH Annex XIV substances

VOC (EU) 0 %

Other information, restriction and prohibition regulations

Directive 92/85/EEC on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding as amended. Directive 94/33/EC on the protection of young people at work, as amended. Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended. For details, refer to section 3

and 8.

**Seveso Information National regulations**  Not applicable

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

**CSA** 

**CSR** 

**DMEL** 

DNEL

EAC

EC

EC50

**EINECS** 

Section 1 - Section 16.	
Abbreviations and acronyn	ns
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
ow .	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

**ELINCS** European List of Notified Chemical Substances.

Chemical safety assessment

Derived Minimum Effect Level.

Chemical Safety Report.

Derived no effect level

European community

Effective concentration

European waste catalogue

European Inventory of Existing Commercial Chemical Substances.

FΝ European norm.

**ERC** ERC (Environmental Release category)

FU 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 NOFC No-Observed Effect Concentration

**NOEL** no-observed-effect level

OFCD 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

SVHC Substance of Very High Concern.

TLV Threshold Limit Value

SU (Sector of use)

TRGS Technical Rules for Hazardous Substances (German Standard).

SU (Sector of use)

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

Other information 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 product information 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 product information sheet is not necessarily valid for the new made-up material.

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

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-PU2

Ford Int. Ref. No.: 183164 REVISION DATE: 10.03.2021

**Involved Products:** 

Finiscode Part number Container Size:

1 9U7J M2G322 AA 310 ml

Part of Kit:

2 053 962 FU7J T03863 EB Windscreen Adhesive Kit – 2 Component H2

2 1 937 435 9U7J M2G322 EA 200 ml