# HARDENER H

1.1.

# SAFETY DATA SHEET

according to Regulation (EU) 2015/830



ISSUE DATE: 13.01.2015 REVISION DATE: 10.12.2019 SUPERSEDES DATE: 01.07.2016 VERSION: 2.2

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

Product identifierTrade nameHardener HProduct codeFord Internal Ref.: 183190SDS Number8059Product useProfessional use

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

Relevant identified uses	Hardner
Uses advised against	Unknown

#### 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

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

## 2.2. Label elements

This mixture does not meet the criteria for labelling according to Regulation (EC) 1272/2008 as amended.

#### 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

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II.

#### 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 if you feel unwell.
Skin contact:	Wash skin with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Eyes contact	IF IN EYES: 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 thoroughly. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

No additional information available.

**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	Foam. Dry chemical, CO2, dry sand, or alcohol-resistant foam.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

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

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	Hazardous combustion products	During fire, gases hazardous to health may be formed.		
5.3.	Advice for firefighters			
	Precautionary measures fire	Cool containers exposed to heat with water spray and remove container, if no risk is involved.		
	Firefighting instructions	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 and full protective clothing must be worn in case of fire.		

#### 6. SECTION 6: Accidental release measures

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

General measures	If spilled, may cause the floor to be slippery.	
For non-emergency personnel		
Protective equipment	Wear appropriate protective equipment and clothing during clean-up. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures	Keep people away from and upwind of spill/leak. Keep unnecessary personnel away. Ventilate spillage area. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained.	
For emergency responders		
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures	Keep unnecessary personnel away.	

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	Large Spills: Stop leak if safe to do so. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). 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 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	Ensure good ventilation of the work station. Avoid release to the environment. Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment. 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.

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

	Storage conditions	Store in original container. Store tightly closed in a dry, cool and well-ventilate place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect against frost.	
	Storage temperature	15 - 25 °C	
7.3.	Specific end use(s)	Hardner.	

# 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 **PNEC: Predicted no effect concentration** No data available

#### 8.2. Exposure controls

Appropriate engineering controls Materials for protective clothing	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 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 with side shields. EN 166.	

#### Skin protection

Hand protection		The recommendation is only valid for the supplied product and the stated application. Special working conditions, like heat or mechanical strain, which deviate from the test conditions, can reduce the protective effect provided by the recommended glove	
Material	Permeation	Thickness (mm)	Comments
Nitrile rubber (NBR)	6 (> 480 minutes)	0.4	Glove recommendation: Camatril Velours® 730 (Kächele- Cama GmbH, source of supply see www.kcl.de) or comparable product.
In case of splash contact: Nitrile rubber (NBR)	6 (> 480 minutes)	0.4	Glove recommendation: Camatril Velours® 730 (Kächele- Cama GmbH, source of supply see www.kcl.de) or comparable product.
Other protective	measures	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	n	In case of insufficient ventilation, wear suitable respiratory equipment. ABEK-P2. EN 14387	
Skin and body protect	tion	Wear suitable protective clothing, EN 14605, EN ISO 13982	
Thermal hazard prote	ection	Wear appropriate thermal protective clothing, when necessary.	
Environmental exposure controls Inform appropriate managerial or supervisory personnel releases.		anagerial or supervisory personnel of all environmental	

# 9. SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid.
Colour	Colourless.
Odour	Characteristic.
Odour threshold	No data available
рН	9 @ 20°C (68 °F)
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	Not applicable.
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	157 mbar @ 55 °C (131 °F)
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1 g/cm³ @ 20 °C (68 °F)
Solubility	completely miscible with: water.
	Water: @ 20°C (68 °F)
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available
Other information	
	0.0/
VOC (EU)	0 %

9.2.

## 10. SECTION 10: Stability and reactivity

10.1.	Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability	Stable under normal conditions of use.
10.3.	Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
10.4.	Conditions to avoid	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
10.5.	Incompatible materials	Strong oxidizing agent. Strong bases.
10.6.	Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced. During fire, gases hazardous to health may be formed.

## 11. SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
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** 

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

#### Hardener H

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.
	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 10	waste adhesives and sealants other than those mentioned in 08 04 09
	15 01 10*	packaging containing residues of or contaminated by dangerous substances

# 14. SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN Not regulated for transport

# 15. SECTION 15: Regulatory information

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

VOC (EU)	0 %
Other information, restriction and prohibition regulations	Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended. Directive 94/33/EC on the protection of young people at work, as amended. 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.

#### National regulations

No additional information available.

#### 15.2. Chemical safety assessment

No additional information available.

# 16. SECTION 16: Other information

Indication of changes		
Section 1 - Section 1	6.	
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.

code: Ford Interna	al Ref.: 183190		GB - en	Revision date: 12/10/2019	8
Data sourc		OF pa 67	THE COUNCIL of 16 ckaging of substances /548/EEC and 1999/4	272/2008 OF THE EUROPEAN PARLIAMENT AND December 2008 on classification, labelling and and mixtures, amending and repealing Directives 5/EC, and amending Regulation (EC) No 1907/2006	
WEL-STEL				kposure limit (15-minute reference period).	
		average)reference	e period).		
WEL-TWA		•	•	posure limit (8-hour TWA(=time weighted	
vOC vPvB		·	nd Very Bioaccumulati		
VbF VOC		Volatile organic co	mmable Liquids, Austr	a	
		materials			
UVCB		-	-	nposition, Complex reaction products or Biological	
TWA		Time Weighted Av			
TRGS				ces (German Standard).	
TLV		Threshold Limit V	-		
SU (Secior SVHC		Substance of Very	,		
SU (Sector	of use)	Sewage treatment	•		
STEL		Sewage treatmen			
SUL		Specific concentra Short-term Exposi			
RID SCL		Regulations conce Specific concentra	•	I Carriage of Dangerous Goods by Rail	
RID				norization and Restriction of Chemicals).	
Process cat REACH	egoi y	Registration, Eval		on of Chemicals (REGULATION (EC) No 1907/2006	
	legory	Personal protective equipment Process category			
POP		Persistent Organio			
POCP					
PNEC			one creation potential.		
category) PNEC		Predicted No-Effe	ct Concentration		
PC (Chemic	cal product	PC (Chemical pro	duct category)		
PBT		Persistent Bioacci	umulative Toxic		
OEL		Occupational Exp	osure Limits		
OECD		Organisation for E	conomic Co-operation	and Development	
NOEL		no-observed-effec	t level		
NOEC		No-Observed Effe	ect Concentration		
NOAEL		No-Observed Adv	erse Effect Level		
NOAEC		No-Observed Adv	erse Effect Concentra	tion	
MARPOL		International Conv	vention for the Prevent	ion of Pollution from Ships.	
MAK		Threshold limit va	lues Germany.		
MAK-Tmw,	TRK-Tmw		le workplace concentr aily mean value, Austr	ation – daily mean value / Technical standard a.	
MAK-Mow		Maximum allowab	le workplace concentr	ation – instantaneous value, Austria.	
TRK-Kzw		•	lue - Short-term expos	ure limit / Technical reference concentration - short-	
LQ		Limited quantities			
LOEL		Lowest observable effect level.			
LOEC		Lowest observable effect concentration.			
LOAEL		Lowest Observed Adverse Effect Level			
LD50		Lethal Dose 50%.			

#### Training advice

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

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:	Hardener H	
Ford Int. Ref. No.:	183190	REVISION DATE: 10.12.2019
Involved Products	:	
Finiscode	Part number	Container Size:
. 1	9U7J M2G322 BA	4.3 ml
Part of Kit: 2 053 962	FU7J T03863 EB	Windscreen Adhesive Kit - 2 Component H2