



# AUTOMATIC TRANSMISSION FLUID C-ML5

## SAFETY DATA SHEET

according to Regulation (EU) 2015/830

ISSUE DATE: 19.09.2019  
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VERSION: 1.0

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

#### 1.1. Product identifier

Trade name	Automatic Transmission Fluid C-ML5
Product code	Ford Int. Ref. No.: 201196
SDS Number	949
Product use	Professional use

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

Relevant identified uses	Transmission, Axle and Power Steering Fluids
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

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

#### 2.2. Label elements

This product does not meet the criteria for labeling according to Regulation(EC) No 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.
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<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
<b>Skin contact:</b>	Wash skin with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
<b>Eyes contact</b>	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.
<b>Ingestion</b>	Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention if you feel unwell.

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

<b>Symptoms/effects after inhalation</b>	Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation.
<b>Symptoms/effects after skin contact</b>	Prolonged or repeated contact may cause skin to become dry.
<b>Symptoms/effects after ingestion</b>	May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### 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

<b>Suitable extinguishing media</b>	dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ). Water spray.
<b>Unsuitable extinguishing media</b>	Do not use a water jet since it may cause the fire to spread.

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

<b>Fire hazard</b>	Pressurised container: May burst if heated.
<b>Hazardous combustion products</b>	During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO <sub>2</sub> ).

#### 5.3. Advice for firefighters

<b>Precautionary measures fire</b>	Eliminate all ignition sources if safe to do so.
<b>Firefighting instructions</b>	Keep unnecessary personnel away. Use water spray or fog for cooling exposed containers. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if it can be done without personal risk. Prevent runoff from entering water courses, sewers and basements.
<b>Protection during firefighting</b>	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

<b>General measures</b>	Eliminate every possible source of ignition. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Avoid contact with skin and eyes. Avoid breathing mist or vapor.
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##### For non-emergency personnel

<b>Protective equipment</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak.

##### For emergency responders

<b>Emergency procedures</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.
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**6.2. Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

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

**For containment** The product is immiscible with water and will spread on the water surface.  
**Methods for cleaning up** Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Following product recovery, flush area with water. 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**

**Additional hazards when processed** Avoid release to the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.  
**Precautions for safe handling** Ensure good ventilation of the work station. Wear personal protective equipment. Avoid discharge into drains, water courses or onto the ground. Avoid prolonged contact with eyes, skin and clothing. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. 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).  
**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**

**Technical measures** Store in accordance with local, regional, national or international regulation.  
**Storage conditions** Keep cool. Keep container tightly closed and in a well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**Incompatible products** Strong acids. Strong oxidizing agent.  
**Incompatible materials** Direct sunlight. Heat sources. Moisture.  
**Heat and ignition sources** Keep away from heat and sources of ignition.  
**Storage area** Store in accordance with local/regional/national/international regulation.  
**Special rules on packaging** Keep only in original container.

**7.3. Specific end use(s)** Transmission, Axle and Power Steering Fluids.

## **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

<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>	EN 166. Chemical goggles or safety glasses. Wear security glasses which protect from splashes		
<b>Skin protection</b>			
<b>Hand protection</b>	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>	[In case of inadequate ventilation] wear respiratory protection. Type A - High-boiling (>65 °C) organic compounds		
<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 discharge to the environment.		

## 9. SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid
<b>Colour</b>	Red.
<b>Odour</b>	petroleum-like odour.
<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>	No data available
<b>Freezing point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	> 170 °C ASTM D93
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Relative vapour density at 20 °C</b>	No data available
<b>Relative density</b>	No data available
<b>Relative gas density</b>	0.84 - 0.85 @ 15.6 °C
<b>Solubility</b>	Negligible.
<b>Log Pow</b>	No data available
<b>Viscosity, kinematic</b>	5.8 - 6.2 cSt @ 100°C 28 - 32 cSt @ 40°C
<b>Viscosity, dynamic</b>	No data available
<b>Explosive properties</b>	No data available

<b>Oxidising properties</b>	No data available
<b>Explosive limits</b>	No data available
<b>9.2. Other information</b>	
<b>VOC (EU)</b>	0.75 %
<b>10. SECTION 10: Stability and reactivity</b>	
<b>10.1. Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Stable under normal conditions of use.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reactions known under normal conditions of use.
<b>10.4. Conditions to avoid</b>	Moisture. Avoid heat, sparks, open flames and other ignition sources. Direct sunlight.
<b>10.5. Incompatible materials</b>	Strong oxidizing agent. Strong acids. Strong reducing agents.
<b>10.6. Hazardous decomposition products</b>	During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO <sub>2</sub> ).
<b>11. SECTION 11: Toxicological information</b>	
<b>11.1. Information on toxicological effects</b>	
<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met (All hydrocarbons in this mixture: Note L is applicable (DMSO <3%), therefore no classification as carcinogen)
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met
<b>12. SECTION 12: Ecological information</b>	
<b>12.1. Toxicity</b>	
<b>Ecology - general</b>	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.
<b>12.2. Persistence and degradability</b>	No additional information available.
<b>12.3. Bioaccumulative potential</b>	No additional information available.
<b>12.4. Mobility in soil</b>	No additional information available.

## 12.5. Results of PBT and vPvB assessment

### Automatic Transmission Fluid C-ML5

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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

<b>Waste treatment methods</b>	Dispose of contents/container in accordance with local/regional/national/international 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).
<b>Sewage disposal recommendations</b>	Do not contaminate ponds, waterways or ditches with chemical or used container.
<b>Product/Packaging disposal recommendations</b>	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.
<b>European List of Waste (LoW) code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils
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)** 0.75 %

**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** Not applicable

#### 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

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None.

### Abbreviations and acronyms

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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).
<b>Data sources</b>	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..

*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:** Automatic Transmission Fluid C-ML5

**Ford Int. Ref. No.:** 201196

REVISION DATE: 19.09.2019

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**Involved Products:**

	<b>Finiscode</b>	<b>Part number</b>	<b>Container Size:</b>
.	1 2 433 505	7U7J M2C938 AC	1 l