



AUTOMATIC TRANSMISSION FLUID NP-AW 21-II

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

ISSUE DATE: 05.05.2015

REVISION DATE: 19.09.2019

SUPERSEDES DATE: 25.08.2016

VERSION: 5.1

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

1.1. Product identifier

Trade name	Automatic Transmission Fluid NP-AW 21-II
Product code	Ford Int. Ref. No.: 182768
SDS Number	7958
Product use	Professional use

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

Relevant identified uses	Transmission Oil
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

Environmental hazards	Hazardous to the aquatic environment — H412 Chronic Hazard, Category 3	Harmful to aquatic life with long lasting effects.
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2.2. Label elements

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

Signal word	-
Hazard statements	H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	P273 Avoid release to the environment.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

3. SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
Reaction product of alkylthioalcohol and substituted phosphorus compound	N/A 424-820-7	< 0.25	Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410	

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. Never give anything by mouth to an unconscious person.

Inhalation

Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.

Skin contact:

Wash skin with soap and water. Take off contaminated clothing. Wash clothing before re-using. If skin irritation occurs: Get medical advice/attention.

Eyes contact

Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.

Ingestion

Rinse mouth with water. Do not induce vomiting. Get medical attention if symptoms occur.

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

Symptoms/effects after inhalation

Inhalation may cause irritation, cough, shortness of breath. Headache. nausea, vomiting. May cause drowsiness or dizziness.

Symptoms/effects after skin contact

Repeated or prolonged skin contact may cause irritation.

Symptoms/effects after eye contact

May cause eye irritation.

Symptoms/effects after ingestion

May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Chronic symptoms

No effects known.

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

Provide general supportive measures and treat symptomatically.

5. SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). 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

Fire hazard

Not flammable. Heat may cause pressure rise with explosion of tanks/drums.

Hazardous combustion products

During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO₂). Aldehydes.

5.3. Advice for firefighters

Precautionary measures fire	Use standard firefighting procedures and consider the hazards of other involved materials. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Firefighting instructions	Evacuate area. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment. Dispose of in accordance with local regulations.
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	Do not allow run-off from fire fighting to enter drains or water courses.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Eliminate every possible source of ignition. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
For non-emergency personnel	
Protective equipment	For personal protection, see section 8 of the SDS.
Emergency procedures	Ventilate spillage area. Wear appropriate personal protective equipment. Evacuate unnecessary personnel. Keep people away from and upwind of spill/leak. No flames, no sparks. Eliminate all sources of ignition. For personal protection, see section 8 of the SDS. Avoid breathing dust, mist or spray. Avoid contact with skin, eyes and clothing.
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 discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

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 leak if safe to do so. Dike the spilled material, where this is possible. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Following product recovery, flush area with water.
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. Wear personal protective equipment. Avoid discharge into drains, water courses or onto the ground. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing mist or vapor. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof equipment. Take any precaution to avoid mixing with Incompatible materials.
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. 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

Technical measures	Store in accordance with local, regional, national or international regulation.
Storage conditions	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep cool. Store away from incompatible materials (see Section 10 of the SDS). Protect from sunlight. Store in a well-ventilated place.
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 Oil.

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	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 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	EN 166. Safety glasses. Wear security glasses which protect from splashes		
Skin protection			
Hand protection	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		
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	No additional information available.		
Respiratory protection	[In case of inadequate ventilation] wear respiratory protection. Wear a respirator conforming to EN140 with Type A filter or better. If the occupational exposure limit is exceeded: Positive pressure self-contained breathing apparatus (SCBA)		
Skin and body protection	Long sleeved protective clothing		
Thermal hazard protection	Wear appropriate thermal protective clothing, when necessary.		
Environmental exposure controls	Avoid release to the environment.		

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance	Liquid.
Colour	Red.
Odour	Slight.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Pour point	<= -42 °C
Freezing point	No data available
Boiling point	No data available
Flash point	198 °C @ COC
Auto-ignition temperature	200 - 410 °C
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	0.85 g/cm ³ @15°C
Solubility	insoluble in water.
Log Pow	No data available
Viscosity, kinematic	25.7 mm ² /s @40°C
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Lower explosive limit (LEL)	1 vol %
Upper explosive limit (UEL)	7 vol %

9.2. Other information

VOC (EU)	0 %
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10. SECTION 10: Stability and reactivity

10.1. Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid	None under recommended storage and handling conditions (see section 7). Avoid heat, sparks, open flames and other ignition sources.
10.5. Incompatible materials	Oxidising agents. Alkalines. Halogens. Strong acids.
10.6. Hazardous decomposition products	During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO ₂). Nitrogen oxides. Phosphorus oxides.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
Automatic Transmission	(calculated)	ATE	Dermal	> 5000	mg/kg		

Fluid NP-AW 21-II (value)

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 All hydrocarbons in this mixture: Note L is applicable (DMSO <3%), therefore no classification as carcinogen
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 Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
Reaction product of alkylthioalcohol and substituted phosphorus compound (N/A)	Fish	Oncorhynchus mykiss (Rainbow trout)	LC50	1,5 mg/l	96 hours	
	algae	Pseudokirchnerella subcapitata	EC50	0,31 mg/l	72 hours	

Chronic aquatic toxicity

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
Reaction product of alkylthioalcohol and substituted phosphorus compound (N/A)	crustacea	Daphnia magna	NOEC	0.14 mg/l	21 days	

12.2. Persistence and degradability

Automatic Transmission Fluid NP-AW 21-II

Persistence and degradability No data available.

Reaction product of alkylthioalcohol and substituted phosphorus compound (N/A)

Persistence and degradability Not readily biodegradable.

Biodegradation 52.9 % OECD 301 B

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

Automatic Transmission Fluid NP-AW 21-II

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

Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions. 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).

Sewage disposal recommendations Do not contaminate ponds, waterways or ditches with chemical or used container.

Product/Packaging disposal recommendations 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

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

13 02 08* other 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006

Reaction product of alkylthioalcohol and substituted phosphorus compound 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

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

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

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Occupational exposure limit value
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Federal Institute for Materials Research and Testing, Germany
BAT	Maximum permissible concentration of biological working substances.
BCF	Bio-concentration factor.
BLV	Biological limit values
BLV	Biological limit values (BGW, Austria)
BMGV	Biological Monitoring Guidance Value (EH40,UK).
BOD5	Biochemical oxygen demand within 5 days
BOD	Biochemical oxygen demand
bw	Body weight.
calcd.	Calculated
CAS	Chemical Abstract Service.
CEN	European Committee for Standardization
CESIO	European Committee on Organic Surfactants and their Intermediates.
COD	Chemical oxygen demand
CLP	Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR	Carcinogenic, Mutagenic or Reproduction Toxic Substances
CSA	Chemical safety assessment
CSR	Chemical Safety Report.
DMEL	Derived Minimum Effect Level.
DNEL	Derived no effect level
EAC	European waste catalogue
EC	European community
EC50	Effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EN	European norm.
ERC	ERC (Environmental Release category)
EU	European Union
GLP	Good Laboratory Practice.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
GW/VL	Occupational exposure limit value.
GW-kw/VL-cd	Occupational exposure limit value - short term.
GW-M/VL-M	Occupational exposure limit value – "Ceiling".
IATA	International Air Transport Association
IBC code	International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk).
ICAO	International Civil Aviation Organization
IC50	Inhibition Concentration 50%.
IECSC	Inventory of Existing Chemical Substances in China.

IMDG	International Maritime Dangerous Goods
ISO	International Standards Organization.
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal Concentration 50%.
LCLo	Lowest published lethal concentration.
LD50	Lethal Dose 50%.
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest observable effect concentration.
LOEL	Lowest observable effect level.
LQ	Limited quantities
TRK-Kzw	Threshold limit value - Short-term exposure limit / Technical reference concentration - short-time value, Austria.
MAK-Mow	Maximum allowable workplace concentration – instantaneous value, Austria.
MAK-Tmw, TRK-Tmw	Maximum allowable workplace concentration – daily mean value / Technical standard concentration – daily mean value, Austria.
MAK	Threshold limit values Germany.
MARPOL	International Convention for the Prevention of Pollution from Ships.
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
NOEL	no-observed-effect level
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limits
PBT	Persistent Bioaccumulative Toxic
PC (Chemical product category)	PC (Chemical product category)
PNEC	Predicted No-Effect Concentration
POCP	Photochemical ozone creation potential.
POP	Persistent Organic Pollutants
PPE	Personal protective equipment
Process category	Process category
REACH	Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL	Specific concentration limit.
STEL	Short-term Exposure Limit
STP	Sewage treatment plant
SU (Sector of use)	SU (Sector of use)
SVHC	Substance of Very High Concern.
TLV	Threshold Limit Value
TRGS	Technical Rules for Hazardous Substances (German Standard).
TWA	Time Weighted Average
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
VbF	Ordinance on Flammable Liquids, Austria
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative

WEL-TWA Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period).

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

Data sources REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006..

Full text of H- and EUH-statements

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), 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 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1.
Skin Corr. 1B	Skin corrosion/irritation, Category 1B.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very 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]

Aquatic Chronic 3	H412	Calculation method
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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 NP-AW 21-II

Ford Int. Ref. No.: 182768

REVISION DATE: 19.09.2019

Involved Products:

	Finiscode	Part number	Container Size:
.	1 1 700 780	AU7J 19A509 AA	1 l