HYDRAULIC FLUID DP-ASM

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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

1.1. Product identifier

Trade name	Hydraulic Fluid DP-ASM
Product code	Ford Internal Ref.: 138829
SDS Number	7987
Product use	Professional use

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

Relevant identified uses	Hydraulic fluids and additives
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	Acute toxicity (inhal.), Category 4	H332	Harmful if inhaled.
	Aspiration hazard, Category 1	H304	May be fatal if swallowed and enters airways.

2.2. Label elements

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

Hazard pictograms

Signal word	Danger
Contains	Dec-1-ene, dimers, hydrogenated ; Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Hazard statements

H304	May be fatal if swallowed and enters airways.
H332	Harmful if inhaled.

Precautionary statements

Prevention

P261	Avoid breathing mist, spray, vapours.
Response	
P301+P310	IF SWALLOWED: Immediately call a doctor, a POISON CENTER.
P312	Call a doctor if you feel unwell.
P331	Do NOT induce vomiting.
Supplemental hazard information	
EUH208	Contains Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs, methyl methacrylate. May produce an allergic reaction.

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
Dec-1-ene, dimers, hydrogenated	68649-11-6 500-228-5 01-2119493069-28-XXXX	50 - < 100	Acute Tox. 4 (Inhalation), H332 Asp. Tox. 1, H304	UVCB
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0 276-737-9 649-482-00-X 01-2119474878-16-XXXX	20 - < 30	Carc. 1B, H350 Asp. Tox. 1, H304	UVCB (Note L)
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.	61791-44-4 263-177-5	0,1 - < 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412	
methyl methacrylate	80-62-6 201-297-1 607-035-00-6 01-2119452498-28-XXXX	0,1 - < 1	Flam. Liq. 2, H225 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317	substance with a Community workplace exposure limit (Note D)

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

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

Full text of H-statements: see section 16

4. SECTION 4: First aid measures

4.1. Description of first aid measures

General information Call a physician immediately.

Inhalation	Remove person to fresh air and keep comfortable for breathing. Move the affected person away from the contaminated area and into the fresh air. Call a physician immediately.
Skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water.
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	Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	Aspiration may cause pulmonary oedema and pneumonitis.
Symptoms/effects after inhalation	After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.
Symptoms/effects after ingestion	Risk of lung oedema.

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

Risk of aspiration pneumonia. Aspiration may cause pulmonary oedema and pneumonitis.

5. SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	carbon dioxide (CO_2), powder, water spray.
Unsuitable extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	Container may explode in heat or fire. Combustible liquid. Move containers from fire area if it can be done without personal risk.
Explosion hazard	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity in case of fire	Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.
Hazardous combustion products	During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Precautionary measures fire	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting instructions	Do not enter fire area without proper protective equipment, including respiratory protection. Fight fire with normal precautions from a reasonable distance. Use standard firefighting procedures and consider the hazards of other involved materials.
Protection during firefighting	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Do not attempt to take action without suitable protective equipment.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Avoid contact with skin and eyes. During fire, gases hazardous to health may be formed. Remove ignition sources.
For non-emergency personnel	
Protective equipment	Avoid breathing dust, mist or spray. Wear recommended personal protective equipment. For personal protection, see section 8 of the SDS.

Emergency procedures	Ventilate spillage area. Avoid breathing dust, mist or spray. Avoid contact with skin and eyes. Ensure adequate ventilation. No flames, no sparks. Eliminate all sources of ignition.
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	Cover spill with non combustible material, e.g.: sand/earth. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.2. Environmental precautions

Avoid release to the environment. 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	Prevent entry into waterways, sewer, basements or confined areas. Contain and dispose of waste according to local regulations. Cover spill with non combustible material, e.g.: sand, earth, vermiculite.
Methods for cleaning up	Clean up any spills as soon as possible, using an absorbent material to collect it. Clean surface thoroughly to remove residual contamination. Move containers from fire area if it can be done without personal risk.
Other information	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations" ". 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

Additional hazards when processed	Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	Ensure good ventilation of the work station. Wear personal protective equipment. 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. Avoid release to the environment. Do not eat, drink or smoke when using this product. Do not handle, store or open near an open flame, sources of heat or sources of ignition.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Avoid breathing mist or vapor. Keep away from combustible material.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	Store in a well-ventilated place. Keep container tightly closed. Keep in a cool, well-ventilated place away from heat.
Storage conditions	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a closed container. Store in original container. Store locked up. Store in a well-ventilated place.
Incompatible materials	Refer to section 10.1 on Reactivity.
Storage area	Store away from heat.
Special rules on packaging	Keep only in original container. Store in a closed container.
Packaging materials	Keep only in the original container in a cool,well-ventilated place away from combustible materials.

7.3. Specific end use(s) Hydraulic fluids and additives.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

EU

Regulation	Substance	Type	Value
COMMISSION DIRECTIVE 2009/161/EU	**methyl methacrylate (80-62-6)** Methyl methacrylate	IOELV TWA	50 ppm
		IOELV STEL	100 ppm

United Kingdom

Regulation	Substance	Type	Value
EH40. HSE	**methyl methacrylate (80-62-6)** Methyl methacrylate	WEL TWA	208 mg/m³
		WEL TWA	50 ppm
		WEL STEL	416 mg/m³
		WEL STEL	100 ppm

DNEL: Derived no effect level

No data available

PNEC: Predicted no effect concentration

No data available

8.2. Exposure controls

Appropriate engineering controls Ensure good ventilation of the work station

Materials for protective clothing Wear suitable protective clothing.

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

Eye protection If contact is likely, safety glasses with side shields are recommended. EN 166.

Skin protection

Hand protection The protective gloves to be used must comply with the specification of EU directive 89/686/EC and the resultant standard EN374. The above given information is based on laboratory test in line with EN374. 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 mm	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 mm	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 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Filter type. Type A - High-boiling (>65 °C) organic compounds

Thermal hazard protection No additional information available.

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

Colour Green.

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	156 °C
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	0.82 g/cm³
Solubility	insoluble in water.
Log Pow	No data available
Viscosity, kinematic	18.7 mm²/s @ 40°C
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

9.2. Other information

VOC (EU)	Not applicable

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.

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).

10.5. Incompatible materials No additional information available.

10.6. Hazardous decomposition products Thermal decomposition generates : Toxic gases. Toxic vapours.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Inhalation: Harmful if inhaled.

Mixture

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
Hydraulic Fluid DP-ASM	(calculated value)	ATE	Inhalation	3,51	mg/l		Dust/Mist

Substance

Name	Method	Type	Exposure route	Value	Unit	Species	Remarks
Dec-1-ene, dimers, hydrogenated (68649-11-6)		LC50	Inhalation	1.17	mg/l/4h	rat	

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	May be fatal if swallowed and enters airways.

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

Hydraulic Fluid DP-ASM

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

Additional information	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)	Disposal must be done according to official 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).
Waste treatment methods	Dispose of contents/container in accordance with local/regional/national/international regulations. Do not allow this material to drain into sewers/water supplies. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container.
Product/Packaging disposal recommendations	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
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.
13 01 11*	synthetic hydraulic 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

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based - methyl methacrylate	3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008
methyl methacrylate	3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
Hydraulic Fluid DP-ASM - Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based - methyl methacrylate	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
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2
methyl methacrylate	40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC (EU)	Not applicable
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. 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

Section 1 - Section 16.

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.
ATE	Acute Toxicity Estimate.
BCF	Bioconcentration factor.
CAO	Cargo Aircraft Only.
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

DNEL	Derived-No Effect Level.
EC50	Median effective concentration.
IATA	International Air Transport Association.
IMDG	International Maritime Dangerous Goods.
LC50	Median lethal concentration.
LD50	Median lethal dose.
NOEC	No-Observed Effect Concentration.
OECD	Organisation for Economic Co-operation and Development.
OEL	Occupational Exposure Limit.
PBT	Persistent Bioaccumulative Toxic.
PCA	Passenger and Cargo Aircraft.
PNEC	Predicted No-Effect Concentration.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail.
RRN	REACH Registration no..
STP	Sewage treatment plant.
TLM	Median Tolerance Limit.
TWA	Time Weighted Average. The average concentration of a chemical in air over the total exposure time-usually an 8-hour workday..
vPvB	Very Persistent and Very Bioaccumulative.
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

Full text of H- and EUH-statements

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4.
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4.
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3.
Asp. Tox. 1	Aspiration hazard, Category 1.
Carc. 1B	Carcinogenicity, Category 1B.
Flam. Liq. 2	Flammable liquids, Category 2.
Skin Corr. 1B	Skin corrosion/irritation, Category 1B.
Skin Irrit. 2	Skin corrosion/irritation, Category 2.
Skin Sens. 1	Skin sensitisation, Category 1.
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H412	Harmful to aquatic life with long lasting effects.

EUH208	Contains . May produce an allergic reaction..

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

Acute Tox. 4 (Inhalation)	H332	
Asp. Tox. 1	H304	Expert judgment

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

Involved Products:

	Finiscode	Part number	Container Size:
1.	1 430 380	XM2J N052146 AB	1 l