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	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

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.
P331	Do NOT induce vomiting.
P312	Call a doctor if you feel unwell.
Supplemental hazard information	
EUH208	Contains 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	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0 276-737-9 649-482-00-X 01-2119474878-16-XXXX	10 - < 20	Asp. Tox. 1, H304	(Note L)
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)
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.	1218787-32-6 620-540-6 01-2119510877-33-XXXX	0,1 - < 0,25	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410	

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.

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.

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. Seek medical attention immediately.

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 skin contact	May cause an allergic skin reaction.
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 as an extinguisher, as this will spread the fire.

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.
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

Components	Type	Route	Value	Form
Dec-1-ene, dimers, hydrogenated (68649-11-6)	Worker	Inhalation	60 mg/m³	Acute - systemic effects
	Consumer	Inhalation	50 mg/m³	Acute - systemic effects
Methyl methacrylate (80-62-6)	Worker	Dermal	1.5 mg/cm²	Acute - local effects
		Dermal	13.67 mg/kg bodyweight/day	Long-term - systemic effects
		Dermal	1.5 mg/cm²	Long-term - local effects
		Inhalation	208 mg/m³	Long-term - systemic effects
		Inhalation	208 mg/m³	Long-term - local effects
	Consumer	Dermal	1.5 mg/cm²	Acute - local effects
		Inhalation	74.3 mg/m³	Long-term - systemic effects
		Dermal	8.2 mg/kg bodyweight/day	Long-term - systemic effects
		Dermal	1.5 mg/cm²	Long-term - local effects
		Inhalation	104 mg/m³	Long-term - local effects
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	Worker	Dermal	1 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	2.7 mg/m³	Long-term - systemic effects
		Inhalation	5.6 mg/m³	Long-term - local effects
	Consumer	Oral	0.74 mg/kg bodyweight/day	Long-term - systemic effects
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs. (1218787-32-6)	Worker	Dermal	0.3 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	2.112 µg/m³	Long-term - systemic effects
	Consumer	Oral	0.214 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	0.745 mg/m³	Long-term - systemic effects
		Dermal	0.214 mg/kg bodyweight/day	Long-term - systemic effects

PNEC: Predicted no effect concentration

No data available

Components	Type	Route	Value	Form
Methyl methacrylate (80-62-6)	Not applicable	Freshwater	0.94 mg/l	
		Seawater	0.94 mg/l	
		Freshwater	0.94 mg/l	Intermittent release
		sediment	5.74 mg/kg dwt	Freshwater
		Soil	1.47 mg/kg dwt	
		STP	10 mg/l	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	Not applicable	Oral	9.33 mg/kg food	Secondary Poisoning

Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs. (1218787-32-6)	Not applicable	Freshwater	0.214 µg/L	
		Seawater	0.021 µg/L	
		Freshwater	0.87 µg/L	Intermittent release
		sediment	1.692 mg/kg dwt	Freshwater
		sediment	0.169 mg/kg dwt	Seawater
		Soil	5 mg/kg dwt	
		Oral	2 mg/kg food	Secondary Poisoning
		STP	1500 µg/L	

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 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

Skin and body protection Wear suitable gloves (tested to EN374), coverall and eye protection,Wear suitable protective clothing

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 @ 15 °C
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 Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO2).

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity 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
	(calculated value)	ATE	oral	>5000	mg/kg		

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 CAS-Nr. 72623-86-0. Note L is applicable (DMSO <3%)
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.

Hazardous to the aquatic environment, short-term (acute)

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs. (1218787-32-6)	Fish		LC50	0,1 mg/l	96 h	(OECD 203 method)
	crustacea		EC50	0,043 mg/l	48 h	(OECD 202 method)

Hazardous to the aquatic environment, long-term (chronic)

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs. (1218787-32-6)	crustacea		EC50	0,0107 mg/l	21 d	(OECD 211 method)
	algae		EC50	0,0538 mg/l	72 h	(OECD 201 method)
	algae		NOEC	0,0156 mg/l		

12.2. Persistence and degradability

Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs. (1218787-32-6)

Persistence and degradability	Readily biodegradable. (OECD 301D method).
Biodegradation	63 % (28 d, OECD 301D)

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

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 ; Dec-1-ene, dimers, hydrogenated ; Methyl methacrylate ; Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based ; Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.	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
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.	3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
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. Directive 94/33/EC on the protection of young people 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

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

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

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

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 Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1.
Asp. Tox. 1	Aspiration hazard, Category 1.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1.
Flam. Liq. 2	Flammable liquids, Category 2.
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C.
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..
H318	Causes serious eye damage..
H332	Harmful if inhaled..
H335	May cause respiratory irritation..
H400	Very toxic to aquatic life..
H410	Very toxic to aquatic life with long lasting effects..
EUH208	Contains Methyl methacrylate. 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	Calculation method
Asp. Tox. 1	H304	Calculation method

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Attachment to the Safety Data Sheet

Product Name: Hydraulic Fluid DP-ASM

Ford Int. Ref. No.: 138829 REVISION DATE: 08.07.2020

Involved Products:

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