

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 12-3-2021 Revision date: 3-12-2021 Supersedes: 20-4-2021 version: 2.1

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

1.1. Product identifier

Product form : Mixture Product name · 7HS Servo

UFI : AMFF-012C-NA2F-6WTS

: ATR.ZHS Servo Product code

Type of product : Other engine, gear and lubricating oils.

Product group : Blend

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

#### 1.2.1. Relevant identified uses

: Professional use, Consumer use, Industrial use Main use category

Industrial/Professional use spec : Non-dispersive use

Used in closed systems

Function or use category

: Lubricants and additives

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Auto-Teile-Ring GmbH Marie-Curie-Strasse 3

D-73770 Denkendorf Denkendorf - Germany

T +49 (0)711 918979-99

info@cartechnic.de - www.cartechnic.de

## 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard, Category 1 H304 Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H-statements: see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS08

CLP Signal word

: Danger.

Hazardous ingredients

: Hydrotreated light paraffinic distillates (petroleum); Hydrocarbons, C13-C16, n-alkanes,

isoalkanes, cyclics, < 0.03% aromatics; Hydrogen desulphurised gas oils.

Hazard statements (CLP)

: H304 - May be fatal if swallowed and enters airways. H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P273 - Avoid release to the environment.

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER. Do NOT

induce vomiting.

P501 - Dispose of container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

Other hazards not contributing to the classification : If spilled, may cause the floor to be slippery. Forms thin oil film on surface of water.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

# 3.2. Mixtures

Comments

: Highly refined mineral oil, contains <3% (w/w) DMSO extract, according to IP346

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated light paraffinic, Baseoil (Note L)	(CAS-No.) 64742-55-8 (EC-No.) 265-158-7 (EC Index-No.) 649-468-00-3 (REACH-no) 01-2119487077-29	≥ 40 - < 50	Asp. Tox. 1, H304
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	(EC-No.) 934-954-2 (REACH-no) 01-2119826592-36	≥ 40 - < 50	Asp. Tox. 1, H304
Hydrogen desulphurised gas oils.	(CAS-No.) 64742-79-6 (EC-No.) 265-182-8 (REACH-no) 01-2119471311-49	≥ 5 – < 10	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Carc. 1B, H350 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Alkylphenol (2,6-di-tert-butylphenol)	(CAS-No.) 128-39-2 (EC-No.) 204-884-0 (REACH-no) 01-2119490822-33	≥ 0,25 – < 1	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
tris(methylphenyl) phosphate	(CAS-No.) 1330-78-5 (EC-No.) 809-930-9 (REACH-no) 01-2119531335-46	≥ 0,1 - < 0,25	Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phenol, dodecyl-, branched substance listed as REACH Candidate (Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP))	(CAS-No.) 121158-58-5 (EC-No.) 310-154-3 (REACH-no) 01-2119513207-49	≥ 0,025 - < 0,1	Repr. 1B, H360F Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Naphthalene	(CAS-No.) 91-20-3 (EC-No.) 202-049-5	< 0,01	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide 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), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Full text of H- and EUH-statements: see section 16

#### **SECTION 4: First aid measures**

<u> 1</u> 1	Descrin	tion of	first aid	measures

General : In all cases of doubt, or when symptoms persist, seek medical attention.

After inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek

medical advice.

After skin contact : Wash skin with mild soap and water. Take off immediately all contaminated clothing and

wash it before reuse. Get immediate medical advice/attention.

After eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

After ingestion : Do not induce vomiting. Rinse mouth out with water. Call a POISON CENTER/doctor if you

feel unwell.

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

After inhalation : No specific data. May cause headache, nausea and irritation of respiratory tract.

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· May be harmful in contact with skin After skin contact

After eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of

normal use.

: Entering the lungs by ingestion or vomiting may cause severe lung damage. Keep under After ingestion

medical supervision for at least 48 hours. After ingestion: Gastric and intestinal problems.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, powder, foam and CO2.

: Do not use a water jet since it may cause the fire to spread. Unsuitable extinguishing media

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

Hazardous decomposition products in case of fire : When exposed to high temperatures may produce hazardous decomposition products such

as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx). Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Very toxic by inhalation. May have a narcotic effect at high concentrations. Mass of toxic emissions per

mass of combustion products.

#### 5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Self-contained breathing apparatus with an air line.

Other information : Discharge combustion ash or solids themselves on permitted sites.

#### **SECTION 6: Accidental release measures**

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

General measures : Avoid contact with skin and eyes. If spilled, may cause the floor to be slippery. Use

protective clothing.

#### 6.1.1. For non-emergency personnel

: Wear suitable protective clothing and eye/face protection. Protective equipment

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye/face protection.

#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

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

For containment Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Collect all

waste in suitable and labelled containers and dispose according to local legislation.

Other information : If spilled, may cause the floor to be slippery.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Additional hazards when processed : Take action to prevent static discharges.

Precautions for safe handling : Provide sufficient air exchange and/or exhaust. Wear personal protective equipment. Do

not breathe vapours. Do not get in eyes, on skin, or on clothing.

Hygiene measures : 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 Keep away from food, drink and animal feedingstuffs. Store in a closed container. Protect

from moisture.

Storage conditions : Store in original container. : Strong oxidizing agents. Incompatible products

Storage area : Keep in a cool, well-ventilated place. Store in a closed container.

#### 7.3. Specific end use(s)

Please refer to the product description for further information.

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## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

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ZHS Servo		
EU	IOELV TWA (mg/m³)	5 mg/m³
Naphthalene (91-20-3)		
EU	IOELV TWA (mg/m³)	50 mg/m³
EU	IOELV TWA (ppm)	10 ppm
Germany	Notes	
United Kingdom	WEL TWA (mg/m³)	50 mg/m³

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m3 oilspray (TWA, 8 hour workday) is recommended.

#### 8.2. Exposure controls

#### **Technical measures:**

Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment:

Gloves. Safety glasses.

## Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

#### Hand protection:

Wear suitable gloves resistant to chemical penetration

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,38		EN ISO 374, EN 420

#### Eye protection:

Wear security glasses which protect from splashes. Liquid splashes may occur. EN 166

#### Skin and body protection:

Long sleeved protective clothing

## Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

#### Personal protective equipment symbol(s):





#### **Environmental exposure controls:**

Do not allow into drains or water courses. Not degradable in the soil.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance : Oily. Colour : Green. : Characteristic. Odour Odour threshold : No data available : No data available pН Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available : No data available Freezing point : No data available Boiling point Flash point : > 105 °C Auto-ignition temperature : No data available

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Decomposition temperature : No data available : Relative vapour density at 20 °C : No data available : 0,842 (≥ 0,852) @ 15 °C : 0,842 (≥ 0,852) @ 15 °C : 842 (842 − 852) kg/m³ @ 15 °C : Insoluble in water.

: Insoluble in water. Water: Negligible.

Log Pow : No data available

Viscosity, kinematic : 18 (17 – 19) mm²/s 40°C
Viscosity, dynamic : No data available
Explosive properties : Product is not explosive.

Oxidising properties : No data available Explosive limits : No data available

9.2. Other information

VOC content : 0 %

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None under normal conditions.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## 10.5. Incompatible materials

Strong oxidizing agent.

#### 10.6. Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx), sulphur compounds.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Additional information : Swallowing the liquid may cause aspiration into the lungs with the risk of chemical

pneumonitis

Keep under medical supervision for at least 48 hours

Distillates (petroleum), hydrotreated light paraffinic, Baseoil (64742-55-8)		
LD50 oral rat > 5000 mg/kg OECD 420		
LD50 dermal rabbit	> 5000 mg/kg OECD 402	
LC50 Inhalation - Rat	> 5 mg/l/4h OECD 403	

tris(methylphenyl) phosphate (1330-78-5)	
LD50 oral rat	3700 mg/kg
LD50 dermal rabbit	10000 mg/kg
LC50 Inhalation - Rat	11,1 mg/l

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	
LD50 oral rat	> 5000 mg/kg OECD 401
LD50 dermal rabbit	> 3160 mg/kg 24h OECD 402
LC50 Inhalation - Rat	5266 ml/m³ OECD 403

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Hydrogen desulphurised gas oils. (64742-79-6)		
LD50 oral rat	> 5000 mg/kg OECD 401	
LD50 dermal rat	> 2000 mg/kg OECD 402	
LC50 Inhalation - Rat	4,6 mg/l OECD 403	

Alkylphenol (2,6-di-tert-butylphenol) (128-39-2)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg

Naphthalene (91-20-3)	
LD50 oral rat	> 490 mg/kg
LD50 dermal rat	> 2200 mg/kg
LC50 Inhalation - Rat	> 500 mg/m³ 8h
Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified. (This product is formulated with highly refined mineral oils which are considered under IARC as not carcinogenic. It was the IP 346 test showed that all oils in this product contains less than 3% extractable substances.)
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

STOT-repeated exposure : Not classified

NOAEL (oral, rat, 90 days) 100 mg/kg bodyweight

Aspiration hazard : May be fatal if swallowed and enters airways.

**ZHS Servo** 

18 (17 - 19) mm<sup>2</sup>/s 40°C Viscosity, kinematic

## **SECTION 12: Ecological information**

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

: Not classified

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

: Harmful to aquatic life with long lasting effects.

Distillates (petroleum), hydrotreated light paraffinic, Baseoil (64742-55-8)		
EC50 Daphnia 1 > 10000 mg/l OECD 202		
EC50 other aquatic organisms 1	> 100 mg/l OECD 201	
EC50 96h - Algae [1] > 100 mg/l OECD 203		
NOEC chronic fish	> 1000 mg/l 14/21d (Oncorhynchus mykiss - SQAR Petrotox)	
NOEC chronic crustacea	10 mg/l OECD 211	

tris(methylphenyl) phosphate (1330-78-5)	
LC50 fish 1 0,6 mg/l	
EC50 Daphnia 1	0,14 mg/l
EC50 72h - Algae [1] 0,4 mg/l Desmodesmus subspicatus	
NOEC chronic fish	0,01 mg/l 28d (Oncortynchus mykiss)

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Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics		
LC50 fish 1 > 1028 mg/l OECD 203		
EC50 Daphnia 1	> 3193 mg/l ISO 14996	
EC50 72h - Algae [1]	> 10000 mg/l Skeletonema costatum ISO 10253	
NOEC chronic fish	> 1000 mg/l 28d (Oncortynchus mykiss - QSAR Petrotox)	
NOEC chronic crustacea	C chronic crustacea > 1000 mg/l 21d (Daphnia magna - QSAR Petrotox)	

Hydrogen desulphurised gas oils. (64742-79-6)		
LC50 fish 1 > 21 mg/l OECD 203 (Oncorhynchus mykiss)		
EC50 Daphnia 1	7385 mg/l QSAR Petrotiox	
EC50 72h - Algae [1]	> 1000 mg/l	
NOEC chronic crustacea	0,163 mg/l 21d (Daphnia magna - QSAR Petrotox)	

Alkylphenol (2,6-di-tert-butylphenol) (128-39-2)		
LC50 fish 1 1 mg/l		
EC50 Daphnia 1	0,45 mg/l 48h	
EC50 72h - Algae [1]	1,2 mg/l	
LOEC (chronic)	0,086 mg/l Daphnia magna @21d	
NOEC (chronic)	0,035 mg/l Daphnia magna @21d	
NOEC chronic fish	0,3 mg/l 28d	
NOEC chronic crustacea	0,035 mg/l 21d	

Naphthalene (91-20-3)		
LC50 fish 1	≈ 1,6 mg/l Oncorhynchus mykiss	
LC50 other aquatic organisms 2	2,16 mg/l @48h Daphnia magna	
EC50 Daphnia 1	≈ 1,96 mg/l @48h Daphnia magna	
EC50 other aquatic organisms 1	≈ 0,93 mg/l 30 min	
EC50 other aquatic organisms 2	> 20 mg/l 18h	

## 12.2. Persistence and degradability

## **ZHS Servo**

Persistence and degradability Not soluble in water, so only minimally biodegradable.

Phenol, dodecyl-, branched (121158-58-5)		
Biodegradation 25 % Sturm-test @28d		
12.3. Bioaccumulative potential		
Phenol, dodecyl-, branched (121158-58-5)		
Bioconcentration factor (BCF REACH) 2,9 @27d		
Log Kow	7,1 @0,1d	

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

Phenol, dodecyl-, branched (121158-58-5)

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

No additional information available

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#### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Regional legislation (waste)

: Disposal must be done according to official regulations.

Waste materials

: Empty the packaging completely prior to disposal.

European List of Waste (LoW) code

: 13 01 10\* - mineral based non-chlorinated hydraulic oils

## **SECTION 14: Transport information**

In accordance with ADR / IMDG

ADR	ADR IMDG			
ADIC	IMIDO			
14.1. UN number				
Not applicable	Not applicable			
14.2. UN proper shipping name				
Not applicable	Not applicable			
14.3. Transport hazard class(es)				
Not applicable	Not applicable			
14.4. Packing group				
Not applicable	Not applicable			
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No			
No supplementary information available				

## 14.6. Special precautions for user

#### **Overland transport**

No data available

#### Transport by sea

No data available

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

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

## 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list ≥ 0,1 % / SCL

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 0 %

#### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

Indication of changes:			
Section Changed item Change			Comments
	Revision date	Modified	
	Type of product	Added	

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	Comments (on top of composition)	Modified	
1.1	Product group	Added	
2.2	Precautionary statements (CLP)	Modified	

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360F	May damage fertility.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

## SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.