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Safety Data Sheet

according to Regulation (EC) No 1907/2006

ADDINOL Gear Oil 680 F

Revision date: 10.05.2023Product code: 741125					
SECTION 1: Identification of the s	ubstance/mixture and of the company	/undertaking			
<u>1.1. Product identifier</u> ADDINOL Gear Oil 680 F					
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised aga	inst			
Use of the substance/mixture Gearbox oil.					
1.3. Details of the supplier of the safe	ety data sheet				
Manufacturer Company name:	ADDINOL Lube Oil GmbH Gebäude 4609				
Street: Place:	Am Haupttor D-06237 Leuna				
Telephone: e-mail: Contact person:	+49 (0) 3461 845-0 info@addinol.de Application Technology	Telefax:+49 (0) 3461 845-555			
Internet: Responsible Department:	www.addinol.de ADDINOL Application Technology				
Supplier Company name: Place:	GEM OILS LIMITED IRL-H12K298 Regaskin Co. Cavan				
Telephone: e-mail:	+353 49 4378116 sales@gemoils.ie	Telefax:+353 49 4368329			
Contact person: e-mail: Internet:	GEM OILS LIMITED sales@gemoils.ie https://gemoils.ie/	Telephone: +353 49 4378116			
1.4. Emergency telephone number:	Healthcare Professionals: +353 (1) 809 25	i66 (24 hour service)			

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

EUH210

Regulation (EC) No 1272/2008

Special labelling of certain mixtures

Safety data sheet available on request.

Additional advice on labelling

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

2.3. Other hazards

Prolonged/repetitive skin contact may cause skin defattening or dermatitis. Spilled product must not leak into the ground. Do not allow uncontrolled leakage of product into the environment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous components

CAS No	Chemical name	Chemical name			
	EC No	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)				
64742-54-7	Distillates (petroleum), hydrotreated	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			
	265-157-1 01-2119484627-25				
	Asp. Tox. 1; H304				

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

Specific Con	nc. Limits, M-fac	ctors and ATE	
CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	5 - < 10 %
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg		

Further Information

DMSO-Extrakt < 3 %, IP 346.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

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

No information available.

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

Foam. Extinguishing powder. Carbon dioxide (CO2). Atomized water.

Unsuitable extinguishing media

High power water jet.

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5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Sulfur oxides. Phosphorus oxides. Nitrogen oxides (NOx). carbon black.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eye and clothing.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Section 12: Ecological Information (non-mandatory) Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs. Keep away from: Oxidizing agent

Further information on storage conditions

Protect against: UV-radiation/sunlight. frost. heat. Recommended storage temperature: 5 - 40°C

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7.3. Specific end use(s)

Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
104-76-7	2-Ethylhexan-1-ol	1	5.4		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Base	oil - unspecified		
Worker DNEL,	long-term	inhalation	systemic	2,73 mg/m ³
Worker DNEL,	long-term	inhalation	local	5,58 mg/m³
Worker DNEL,	long-term	dermal	systemic	0,97 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	local	1,19 mg/m³
Consumer DN	EL, long-term	oral	systemic	0,74 mg/kg bw/day
104-76-7	2-Ethylhexan-1-ol			
Worker DNEL,	long-term	inhalation	systemic	12,8 mg/m ³
Worker DNEL,	long-term	inhalation	local	53,2 mg/m³
Worker DNEL,	acute	inhalation	local	53,2 mg/m³
Worker DNEL,	long-term	dermal	systemic	23 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	2,3 mg/m ³
Consumer DN	EL, long-term	inhalation	local	26,6 mg/m ³
Consumer DN	EL, acute	inhalation	local	26,6 mg/m³
Consumer DN	EL, long-term	dermal	systemic	11,4 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	1,1 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmenta	al compartment	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
Secondary po	bisoning	9,33 mg/kg
104-76-7	2-Ethylhexan-1-ol	
Freshwater		0,017 mg/l
Freshwater (intermittent releases)		0,17 mg/l
Marine water		0,002 mg/l
Freshwater s	ediment	0,284 mg/kg
Marine sediment		0,028 mg/kg
Secondary poisoning		55 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	10 mg/l
Soil		0,047 mg/kg

Additional advice on limit values

Recommended limit value for oil mist TWA: 5 mg/m³ STEL: 10 mg/m³

The product does not contain any relevant quantities of substances with legally established exposure limitation.

8.2. Exposure controls





Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Cosaint riospráide le scagaire i gcoinne gás orgánach agus gaile cineál A - fiuchphointe> 65 ° C: A1:

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<1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<u>9.</u> ′	. Information on basic physical and cher	nical properties		
	Physical state:	liquid		
	Colour:	brown		
	Odour:	like: mineral oil.		
	Odour threshold:	not determined		
				Test method
	Melting point/freezing point:		No data available	
	Boiling point or initial boiling point and		No data available	
	boiling range:			
	Flammability:		No data available	
	Lower explosion limits:		No data available	
	Upper explosion limits:		No data available	
	Flash point:			DIN ISO 2592
	Auto-ignition temperature:		No data available	Dir 100 2002
	Decomposition temperature:		No data available	
	pH-Value:		not applicable	
	Viscosity / kinematic:			ASTM D 7042
	(at 40 °C)		000 mm /s	ASTNI D 7042
	Water solubility:		virtually insoluble	
	Solubility in other solvents			
	No data available			
	Partition coefficient n-octanol/water:		No data available	
	Vapour pressure:		No data available	
	Density (at 15 °C):		0,905 g/cm ³	DIN 51757
	Relative vapour density:		No data available	
۰ م	. Other information			
9.4				
	Information with regard to physical haza	ard classes		
	Explosive properties			
	No data available			
	Self-ignition temperature			
	Solid:		No data available	
	Gas:		No data available	
	Oxidizing properties			
	No data available			
	Other safety characteristics			
	Evaporation rate:		No data available	
	Pour point:		-11 °C	ASTM D 7346

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Refer to chapter 7 No further action is necessary.

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Do not overheat to avoid decomposition by heat.

10.5. Incompatible materials

Reacts with : Oxidising agent, strong

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Sulfur oxides. Phosphorus oxides. Nitrogen oxides (NOx). carbon black. No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

CAS No	Chemical name							
	Exposure route	Dose	Species	Source	Method			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified							
	oral	LD50 > 5000 mg/kg	Rat	Study report (1982)	OECD Guideline 401			
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	OECD Guideline 402			

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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. Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

not applicable

SECTION 12: Ecological information

12.1. Toxicity

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

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CAS No	Chemical name	Chemical name					
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified						
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	>100	72 h			
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a

12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

Further information

Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

List of Wastes Code - residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
Inland waterways transport (ADN)	
14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-

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14.3. Transport hazard class(es):	-	
14.4. Packing group:	-	
Marine transport (IMDG)		
14.1. UN number or ID number:	-	
14.2. UN proper shipping name:	-	
14.3. Transport hazard class(es):	-	
14.4. Packing group:	-	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	-	
14.2. UN proper shipping name:	-	
<u>14.3. Transport hazard class(es):</u> 14.4. Packing group:	-	
	-	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.7. Maritime transport in bulk according not applicable	measures for safe transport must be followed. I to IMO instruments	
Other applicable information No dangerous good in sense of these	e transport regulations.	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	gulations/legislation specific for the substance or mixture	
National regulatory information		
Water hazard class (D):	1 - slightly hazardous to water	
<u>15.2. Chemical safety assessment</u> Chemical safety assessments for sub	bstances in this mixture were not carried out.	
SECTION 16: Other information		
•	om the previous version in section(s): 1,4,6,7,9,10,11,12,16.	
assessment, chapter R.20 (Table of t ADR - European Agreement concern European Agreement concerning the - American Society for the Testing of	e: ECHA Guidance on information requirements and chemical safety terms and abbreviations). hing the International Carriage of Dangerous Goods by Road; ADN - e International Carriage of Dangerous Goods by Inland Waterways; ASTM Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO - Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive	

Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN -

European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous

Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation

Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO

- International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50

- Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise

Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -

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Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ -Reportable Quantity; SADT - Self- Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
EUH210	Safety data sheet available on request.

Further Information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)