

ASTRON ATF MB 14

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Print date: 27.10.2023

Revision date: 13.10.2023 Page 1 of 19

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

1.1. Product identifier

ASTRON ATF MB 14

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

Use of the substance/mixture

gear oil

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name: Duran Lubricants & Chemicals GmbH

Street: Rodderheide 3-7
Place: D-33824 Werther
Telephone: +49 (0)5203-901510

e-mail: info@duran-oil.com Internet: www.fosser.de

Responsible Department: Produktsicherheit / Product Safety

info@duran-oil.com

1.4. Emergency telephoneGiftinformationszentrum Nordnumber:(Göttingen)+49 (0)551/19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P273 Avoid release to the environment.

P501 Dispose of contents / container in accordance with official regulations.

Special labelling of certain mixtures

EUH208 Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce an allergic

reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Preparation of base oils and additives.



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 2 of 19

Hazardous components

CAS No	Chemical name					
	EC No Index No REACH No)				
	GHS Classification					
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified	35 - 55 %				
	265-158-7 649-468-00-3 01-211948	7077-29				
	Asp. Tox. 1; H304					
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	30 - 45 %				
	265-157-1 649-467-00-8 01-211948	4627-25				
	Asp. Tox. 1; H304					
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propion	ate 1 - 2,49 %				
	406-040-9 607-530-00-7 01-000001	5551-76				
	Aquatic Chronic 4; H413					
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspe	ecified 1,188 %				
	276-738-4 649-483-00-5 01-211947	4889-13				
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspe	ecified 1,188 %				
	276-737-9 649-482-00-X 01-211947	4878-16				
	Asp. Tox. 1; H304					
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	0,1 - 0,49 %				
	800-172-4 01-211996	9520-35				
	Aquatic Chronic 2; H411					
	Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsatura tetraethylenepentamine (linear, branched, cyclic)	ted) with 0,1 - 0,49 %				
	701-204-9 01-211996	0832-33				
	Skin Irrit. 2, Eye Irrit. 2; H315 H319					
	Reaction product of alkylthioalcohol and substituted phosphorus compound	0,1 - 0,24 %				
	424-820-7 01-000001	7126-75				
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H312 H314 H400 I	-1 410				
93882-40-7	4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate	0,1 - 0,24 %				
	299-434-3 01-212073	5527-50				
	Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H319 H317 H411					
29385-43-1	Methyl-1H-benzotriazole	0,0288 %				
	249-596-6 01-211997	9081-35				
	Repr. 2, Acute Tox. 4, Aquatic Chronic 2; H361d H302 H411					

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



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 3 of 19

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc	Limits, M-factors and ATE			
64742-55-8	265-158-7	Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified	35 - 55 %		
	dermal: LD50) = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg			
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	30 - 45 %		
	inhalation: LC 5000 mg/kg	C50 = 5,53 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = >			
125643-61-0	406-040-9	reaction mass of isomers of: C7-9-alkyl 3- (3,5-di-tert-butyl-4-hydroxyphenyl)propionate	1 - 2,49 %		
	dermal: LD50) = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg			
72623-87-1	276-738-4	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	1,188 %		
	dermal: LD50) = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg			
72623-86-0	276-737-9	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified	1,188 %		
	dermal: LD50				
398141-87-2	800-172-4	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	0,1 - 0,49 %		
	dermal: LD50) = > 4000 - < 8000 mg/kg; oral: LD50 = >10000 mg/kg			
	701-204-9	Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic)	0,1 - 0,49 %		
	dermal: LD50) = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg			
	424-820-7	Reaction product of alkylthioalcohol and substituted phosphorus compound	0,1 - 0,24 %		
	dermal: LD50 = > 500 mg/kg; oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10				
93882-40-7	299-434-3	4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate	0,1 - 0,24 %		
	dermal: LD50 = > 3160 mg/kg; oral: LD50 = > 10000 mg/kg				
29385-43-1	249-596-6	Methyl-1H-benzotriazole	0,0288 %		
	dermal: LD50) = > 2000 mg/kg; oral: LD50 = ca. 720 mg/kg			

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

Take off contaminated clothing and wash it before reuse.

In case of skin irritation, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth thoroughly with water.

Let water be drunken in little sips (dilution effect).



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 4 of 19

Do NOT induce vomiting.

In all cases of doubt, or when symptoms persist, seek medical advice.

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

Use water spray jet to protect personnel and to cool endangered containers.

Co-ordinate fire-fighting measures to the fire surroundings.

- Water spray jet
- Foam
- Carbon dioxide (CO2).
- Extinguishing powder

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated:

- Carbon monoxide (CO)
- Carbon dioxide (CO2).
- Pyrolysis products, toxic

5.3. Advice for firefighters

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

In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep people at a distance and stay on the windward side.

Special danger of slipping by leaking/spilling product.

For non-emergency personnel

Wear protective gloves/protective clothing and eye/face protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

For containment

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.



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 5 of 19

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Remove from the water surface (e.g. skimming, sucking).

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of oil dust.

Use personal protection equipment.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Clear spills immediately.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.

Keep container tightly closed.

Floors should be impervious, resistant to liquids and easy to clean.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

Note Regulation on facilities for the storage, filling and handling water-polluting substances. ..

7.3. Specific end use(s)

gear oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 6 of 19

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64742-55-8	Distillates (petroleum), hydrotreated li	ght paraffinic; Baseoil - unspecified		
Consumer DN	EL, long-term	inhalation	local	1,19 mg/m³
Consumer DN	EL, long-term	oral	systemic	0,74 mg/kg bw/day
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
64742-54-7	Distillates (petroleum), hydrotreated h	eavy paraffinic; Baseoil - unspecified		
Worker DNEL	, long-term	inhalation	systemic	2,73 mg/m³
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
125643-61-0	reaction mass of isomers of: C7-9-alk	yl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)pro	opionate	
Worker DNEL	, long-term	dermal	systemic	1,67 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	1,62 mg/m³
Consumer DN	EL, long-term	dermal	systemic	0,83 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,93 mg/kg bw/day
Worker DNEL	, long-term	inhalation	systemic	6,6 mg/m³
72623-87-1	Lubricating oils (petroleum), C20-50, I	hydrotreated neutral oil-based; Baseoil -	unspecified	
Worker DNEL	, long-term	inhalation	systemic	2,73 mg/m³
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
72623-86-0	Lubricating oils (petroleum), C15-30, I	hydrotreated neutral oil-based; Baseoil -	unspecified	
Worker DNEL	, long-term	inhalation	systemic	2,73 mg/m³
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
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3	-(C9-11-isoalkyloxy) derivs., C10-rich		



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 7 of 19

Worker DNEL	, long-term	inhalation	systemic	24,7 mg/m³
Worker DNEL	, long-term	dermal	systemic	350 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	4,35 mg/m³
Consumer DN	EL, long-term	dermal	systemic	125 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	2,5 mg/kg bw/day
	Reaction product of alkylthioalcohol and substituted phosph	norus compound		
Worker DNEL	, long-term	inhalation	systemic	1,76 mg/m³
Worker DNEL	, long-term	dermal	systemic	0,5 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	0,43 mg/m³
Consumer DN	Consumer DNEL, long-term		systemic	0,25 mg/kg bw/day
Consumer DN	Consumer DNEL, long-term		systemic	0,25 mg/kg bw/day
93882-40-7	4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate			
Worker DNEL	, long-term	inhalation	systemic	3,526 mg/m³
Worker DNEL	, long-term	dermal	systemic	2 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,5 mg/kg bw/day
29385-43-1	Methyl-1H-benzotriazole			
Worker DNEL	, long-term	inhalation	systemic	21,2 mg/m³
Worker DNEL	, long-term	dermal	systemic	0,3 mg/kg bw/day
Consumer DN	Consumer DNEL, long-term		systemic	0,01 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,01 mg/kg bw/day



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 8 of 19

PNEC values

CAS No Substance		
Environmental compartment		Value
64742-55-8 Distillates (p	etroleum), hydrotreated light paraffinic; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
64742-54-7 Distillates (p	etroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
Secondary poisoning		9,33 mg/kg
125643-61-0 reaction ma	ss of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propi	ionate
Freshwater		0,018 mg/l
Freshwater (intermittent rele	ases)	0,018 mg/l
Marine water		0,002 mg/l
Freshwater sediment		2 mg/kg
Marine sediment		0,2 mg/kg
Secondary poisoning		41,33 mg/kg
Micro-organisms in sewage	reatment plants (STP)	100 mg/l
Soil		10 mg/kg
72623-87-1 Lubricating	oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - un	specified
Secondary poisoning		9,33 mg/kg
72623-86-0 Lubricating	oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - un	specified
Secondary poisoning		9,33 mg/kg
398141-87-2 Thiophene,	tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	
Freshwater		0,0024 mg/l
Freshwater (intermittent rele	ases)	0,024 mg/l
Marine water		0,00033 mg/l
Freshwater sediment		0,433 mg/kg
Marine sediment		0,0596 mg/kg
Secondary poisoning		111,11 mg/kg
Micro-organisms in sewage	reatment plants (STP)	100 mg/l
Soil		0,0853 mg/kg
	oducts of fatty acids, C14-C18 (branched and linear) and C18 (unsatu epentamine (linear, branched, cyclic)	urated) with
Freshwater		0,46 mg/l
Freshwater (intermittent rele	ases)	0,94 mg/l
Marine water		0,046 mg/l
Freshwater sediment		38100 mg/kg
Marine sediment		3810 mg/kg
Secondary poisoning		33,3 mg/kg
Micro-organisms in sewage	reatment plants (STP)	1000 mg/l
Soil		10 mg/kg
Reaction pr	oduct of alkylthioalcohol and substituted phosphorus compound	
Freshwater		0,0009 mg/l



	ASTRON ATF MB 14
Revision date: 13.10.2023	Page 9 of 19

Freshwater (in	termittent releases)	0,0009 mg/l		
Marine water		0,00009 mg/l		
Freshwater se	Freshwater sediment			
Marine sedime	ent	0,073 mg/kg		
Secondary poi	soning	10 mg/kg		
Micro-organism	ns in sewage treatment plants (STP)	5 mg/l		
Soil		0,086 mg/kg		
93882-40-7	4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate	·		
Freshwater	•	0,009 mg/l		
Freshwater (in	termittent releases)	0,095 mg/l		
Marine water		0,001 mg/l		
Freshwater sediment		542229,75 mg/kg		
Marine sediment		54222,98 mg/kg		
Secondary poi	soning	20 mg/kg		
Micro-organism	ns in sewage treatment plants (STP)	100 mg/l		
Soil		259870,48 mg/kg		
29385-43-1	Methyl-1H-benzotriazole	·		
Freshwater	•	0,008 mg/l		
Freshwater (in	termittent releases)	0,086 mg/l		
Marine water		0,02 mg/l		
Freshwater se	diment	0,117 mg/kg		
Marine sedime	ent	0,292 mg/kg		
Micro-organism	ns in sewage treatment plants (STP)	39,4 mg/l		
Soil		0,0187 mg/kg		

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls





Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

When using do not eat, drink, smoke, sniff.

Eye/face protection

During filling, metering, mixing and sampling must be used:

Wear eye/face protection. EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 10 of 19

Recommended glove articles: EN ISO 374 Suitable material: NBR (Nitrile rubber) Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough

time: > 8h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves

mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Usually no personal respirative protection necessary.

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: red

Odour: characteristic
Odour threshold: not determined

Test method

pH-Value: not determined

Changes in the physical state

Melting point/freezing point: not determined
Boiling point or initial boiling point and not determined

boiling range:

Pour point: not determined

Flash point: $> 200 \, ^{\circ}\text{C}$ ASTM D 92

Flammability

Solid/liquid: not determined

Explosive properties

The product is not: Explosive. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits:

Upper explosion limits:

Auto-ignition temperature:

not determined

not determined

not determined

not determined

Oxidizing properties

The product is not: oxidising.

Vapour pressure: not determined

Density (at 15 °C): 0,851 g/cm³

Water solubility: The study does not need to be conducted because the substance is known to be

insoluble in water.



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 11 of 19

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / kinematic: 31 mm²/s

(at 40 °C)

Relative vapour density: not determined Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point

10.4. Conditions to avoid

Avoid: Thermal decomposition

10.5. Incompatible materials

Materials to avoid:

- Acids
- Reducing agent
- Oxidising agent

10.6. Hazardous decomposition products

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO2)
- Pyrolysis products, toxic

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 12 of 19

CAS No	Chemical name									
	Exposure route	Dose	Species	Source	Method					
64742-55-8	Distillates (petroleum), hy	drotreated light paraffini	c; 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					
64742-54-7	Distillates (petroleum), hy	drotreated heavy paraffi	nic; 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					
	inhalation (4 h) dust/mist	LC50 5,53 mg/l	Rat		OECD Guideline 403					
25643-61-0	reaction mass of isomers	of: C7-9-alkyl 3-(3,5-di-t	ert-butyl-4-hydroxyphenyl)propionate						
	oral	LD50 > 2000 mg/kg	Rat	Study report (2005)	OECD Guideline 423					
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2000)	OECD Guideline 402					
2623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; 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					
2623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; 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					
98141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich									
	oral	LD50 >10000 mg/kg	Rat							
	dermal	LD50 > 4000 - < 8000 mg/kg	Rabbit	Study report (1975)	other: US 16 CFR 1500.3 Federal Hazardou					
	Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic)									
	oral	LD50 > 5000 mg/kg	Rat	Study report (1985)	OECD Guideline 401					
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1985)	OECD Guideline 402					
	Reaction product of alkylt	hioalcohol and substitute	ed phosphorus compound							
	oral	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 401					
	dermal	LD50 > 500 mg/kg	Rabbit	Study report (1996)	OECD Guideline 402					
3882-40-7	4,4'-thiodiethylene hydrog		nate							



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 13 of 19

	oral	LD50 mg/kg	> 10000	Rat	Study report (1981)	OECD Guideline 401		
	dermal	LD50 mg/kg	> 3160	Rabbit	Study report (1981)	OECD Guideline 402		
29385-43-1	Methyl-1H-benzotriazole							
	oral	LD50 mg/kg	ca. 720	Rat	Study report (1983)	OECD Guideline 401		
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1984)	OECD Guideline 402		

Irritation and corrosivity

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

Sensitising effects

Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

See section: 12.6

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 14 of 19

CAS No	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
64742-55-8	Distillates (petroleum), hy	drotreated li	ight paraffinio	; Baseoi	I - unspecified					
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203			
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a			
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			
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a			
125643-61-0	reaction mass of isomers	of: C7-9-alk	xyl 3-(3,5-di-te	ert-butyl-	4-hydroxyphenyl)propion	ate				
	Acute fish toxicity	LC50 mg/l	> 0,001	96 h	Oncorhynchus mykiss	Study report (2009)	OECD Guideline 203			
	Acute algae toxicity	ErC50	> 0 mg/l	72 h	Desmodesmus subspicatus	Study report (2009)	OECD Guideline 201			
	Acute crustacea toxicity	EL50	110 mg/l	48 h	Daphnia magna	Study report (2000)	OECD Guideline 202			
	Fish toxicity	NOEC mg/l	0,36	33 d	Pimephales promelas	Study report (2009)	OECD Guideline 210			
	Crustacea toxicity	NOEC	3,2 mg/l	21 d	Daphnia magna	Study report (2010)	OECD Guideline 211			
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	activated sludge of a predominantly domestic sewag	Study report (2000)	OECD Guideline 209			
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified									
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203			
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a			
72623-86-0	Lubricating oils (petroleun	n), C15-30,	hydrotreated	neutral o	oil-based; Baseoil - unspe	ecified				
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203			
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a			
398141-87-2	Thiophene, tetrahydro-, 1	1-dioxide, 3	3-(C9-11-isoa	lkyloxy)	derivs., C10-rich					
	Acute fish toxicity	LC50	3,3 mg/l	96 h	Cyprinodon variegatus	REACh Registration Dossier	other: OECD Test Guidelines			
	Acute algae toxicity	ErC50	63 mg/l	96 h						
	Acute crustacea toxicity	EC50	4,6 mg/l	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202			



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 15 of 19

	Acute bacteria toxicity	(EC50 mg/l)	> 10000	3 h	activated sludge of a predominantly domestic sewag	REACh Registration Dossier	OECD Guideline 209
	Reaction products of fatty tetraethylenepentamine (l			ed and li		•	
	Acute fish toxicity	LC50 mg/l	> 1000	96 h	Oncorhynchus mykiss	REACh Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50	44 mg/l	96 h	Raphidocelis subcapitata	REACh Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202
	Fish toxicity	NOEC 0,004 mg/l	ca.	32 d	Pimephales promelas	REACh Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC	32 mg/l	14 d	Daphnia magna	REACh Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	activated sludge of a predominantly domestic sewag	REACh Registration Dossier	OECD Guideline 209
	Reaction product of alkylt	hioalcohol an	d substitute	d phospl	horus compound		·
	Acute fish toxicity	LC50	1,5 mg/l	96 h			
	Acute algae toxicity	ErC50 mg/l	0,31	72 h	Pseudokirchneriella subcapitata	Study report (1996)	EU Method C.3
	Acute crustacea toxicity	EL50 mg/l	0,09	48 h	Daphnia magna	Study report (1996)	EU Method C.2
	Crustacea toxicity	NOEC mg/l	0,14	21 d	Daphnia magna	Study report (2001)	OECD Guideline 211
	Acute bacteria toxicity	(EC50 mg/l)	> 50	3 h	Activated sludge	Study report (1996)	OECD Guideline 209
3882-40-7	4,4'-thiodiethylene hydrog	en -2-octade	cenylsuccin	ate			
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oryzias latipes	REACh Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Raphidocelis subcapitata	REACh Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50	9,5 mg/l	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202
9385-43-1	Methyl-1H-benzotriazole						
	Acute fish toxicity	LC50	55 mg/l	96 h	Cyprinodon variegatus	Study report (2003)	other: The test procedure is based on te
	Acute algae toxicity	ErC50	75 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1994)	OECD Guideline 201
					1		1



ı	ASTRON ATF MB 14											
	Revision date: 13.10.2023						Page 16 of	19				
	Acute crustacea toxicity	EC50 mg/l	15,8		other aquatic crustacea: Daphnia galeata	Environ Sci Pollut Res 19:1781-1790 (201	OECD Guideline 202					
	Crustacea toxicity	NOEC mg/l	18,4	21 d	Daphnia magna	Study report (1995)	other: "Daphnia Reproduction					

Test" of OE

Print date: 27.10.2023

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	
	Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic)	> 6,5
93882-40-7	4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate	> 10
29385-43-1	Methyl-1H-benzotriazole	1,079

BCF

CAS No	Chemical name	BCF	Species	Source
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3- (3,5-di-tert-butyl-4-hydroxyphenyl)propi onate	38	Cyprinus carpio	Study report (2002)
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3- (C9-11-isoalkyloxy) derivs., C10-rich	31	Cyprinus carpio	REACh Registration D
93882-40-7	4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate	ca. 0	Oryzias latipes	REACh Registration D

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

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 information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 17 of 19

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No.

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 75

2010/75/EU (VOC): 0,029 % (0,245 g/l) 2004/42/EC (VOC): 0,029 % (0,245 g/l)

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water



ASTRON ATF MB 14

Revision date: 13.10.2023 Page 18 of 19

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

VOC: Volatile Organic Compounds

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).



H302

H304

H312

Safety Data Sheet

ASTRON ATF MB 14

Revision date: 13.10.2023 Page 19 of 19

Classification for mixtures and used evaluation method according to GB CLP Regulation

May be fatal if swallowed and enters airways.

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

R

	5.00 m m m m m m m m m m m m m m m m m m			
uatic Chronic 3; H412	Calculation method			
Relevant H and EUH statements (number and full text)				

damage.

H314	Causes severe skin burns and eye
⊔ 315	Causes skin irritation

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

Harmful if swallowed.

Harmful in contact with skin.

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. H413 May cause long lasting harmful effects to aquatic life.

EUH208 Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce an allergic

reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. 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.)