

Safety Data Sheet

FOSSER ATF F-ULV Fluid

Revision date: 05.02.2024

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

1.1. Product identifier

FOSSER ATF F-ULV Fluid

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

Use of the substance/mixture

Lubricating agent

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	Fax: +49 (0)5203-901515
e-mail:	info@duran-oil.com	
Internet:	www.fosser.de	
Responsible Department:	Produktsicherheit / Product Safety	
	info@duran-oil.com	

1.4. Emergency telephone number:

Giftinformationszentrum Nord
(Göttingen)+49 (0)551/19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Reaction product of alkylthioalcohol and substituted phosphorus compound

Pictograms:



Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents / container in accordance with official regulations.

2.3. Other hazards

No information available.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mineral oil, Additive

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			50 - 100 %
	265-157-1	649-467-00-8	01-2119484627-25	
	Asp. Tox. 1; H304			
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified			0 - <=2,5 %
	265-159-2	649-469-00-9	01-2119480132-48	
	Asp. Tox. 1; H304			
	Reaction product of alkylthioalcohol and substituted phosphorus compound			0 - <=1 %
	424-820-7		01-0000017126-75	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H312 H314 H400 H410			
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol			0 - <=1 %
	293-927-7		01-2119976351-35	
	Aquatic Chronic 3; H412			

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

Specific Conc. Limits, M-factors 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	50 - 100 %
		inhalation: LC50 = 5,53 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
64742-56-9	265-159-2	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified	0 - <=2,5 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
	424-820-7	Reaction product of alkylthioalcohol and substituted phosphorus compound	0 - <=1 %
		dermal: LD50 = > 500 mg/kg; oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	
91648-65-6	293-927-7	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	0 - <=1 %
		inhalation: LC50 = > 2,75 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 10000 mg/kg	

Further Information

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

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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 drunk in little sips (dilution effect).
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

Formation of toxic gases is possible during heating or in case of fire.
In case of fire may be liberated:

- Nitrogen oxides (NO_x)
- Carbon monoxide (CO)
- Carbon dioxide (CO₂).

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

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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.

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

Do not store together with:
- Materials capable of ignition under almost all normal temperature conditions
- Explosives

Further information on storage conditions

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

7.3. Specific end use(s)

Lubricating agent

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route		Effect	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			
Worker DNEL, long-term	inhalation	systemic		2,73 mg/m ³
Worker DNEL, long-term	inhalation	local		5,58 mg/m ³
Worker DNEL, long-term	dermal	systemic		0,97 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local		1,19 mg/m ³
Consumer DNEL, long-term	oral	systemic		0,74 mg/kg bw/day
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified			
Worker DNEL, long-term	dermal	systemic		0,97 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local		1,19 mg/m ³
Consumer DNEL, 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/m ³
	Reaction product of alkylthioalcohol and substituted phosphorus compound			
Worker DNEL, long-term	inhalation	systemic		1,76 mg/m ³
Worker DNEL, long-term	dermal	systemic		0,5 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic		0,43 mg/m ³
Consumer DNEL, long-term	dermal	systemic		0,25 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic		0,25 mg/kg bw/day
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol			
Worker DNEL, long-term	inhalation	systemic		4,408 mg/m ³
Worker DNEL, long-term	dermal	systemic		6,25 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic		1,087 mg/m ³
Consumer DNEL, long-term	dermal	systemic		3,125 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic		0,625 mg/kg bw/day

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PNEC values

CAS No	Substance	
	Environmental compartment	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
	Secondary poisoning	9,33 mg/kg
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified	
	Secondary poisoning	9,33 mg/kg
	Reaction product of alkylthioalcohol and substituted phosphorus compound	
	Freshwater	0,0009 mg/l
	Freshwater (intermittent releases)	0,0009 mg/l
	Marine water	0,00009 mg/l
	Freshwater sediment	0,73 mg/kg
	Marine sediment	0,073 mg/kg
	Secondary poisoning	10 mg/kg
	Micro-organisms in sewage treatment plants (STP)	5 mg/l
	Soil	0,086 mg/kg
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	
	Freshwater	0,041 mg/l
	Freshwater (intermittent releases)	0,41 mg/l
	Marine water	0,004 mg/l
	Freshwater sediment	380,62 mg/kg
	Marine sediment	38,06 mg/kg
	Secondary poisoning	6,67 mg/kg
	Micro-organisms in sewage treatment plants (STP)	8000 mg/l
	Soil	308,96 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

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

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

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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.

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. EN 14605

Respiratory protection

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 boiling range:	not determined
Pour point:	not determined
Flash point:	165 °C DIN ISO 2592

Flammability

Solid/liquid:	not applicable
	not applicable

Explosive properties

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined

Oxidizing properties

The product is not: oxidising.

Vapour pressure:	not determined
Density (at 20 °C):	0,8415 g/cm ³ DIN 51757

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Water solubility:

The study does not need to be conducted
because the substance is known to be
insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

not determined

Viscosity / kinematic:
(at 40 °C)

23 mm²/s

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

Reaction with: Oxidizing agent

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)
- Nitrogen oxides (NO_x)

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.

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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
	inhalation (4 h) dust/mist	LC50 5,53 mg/l	Rat		OECD Guideline 403
64742-56-9	Distillates (petroleum), solvent-dewaxed light 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
	Reaction product of alkylthioalcohol and substituted 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
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol				
	oral	LD50 > 10000 mg/kg	Rat	Study report (1981)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 > 2,75 mg/l	Rat	Study report (1981)	OECD Guideline 403

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.

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

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The product spreads out on the surface of the water. A small fraction of the constituents will be dissolved. It prevents the solution of oxygen and can cause the death of water organism.

CAS No	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
	Fish toxicity	NOEC mg/l	>= 1000	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
64742-56-9	Distillates (petroleum), solvent-dewaxed light 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
	Reaction product of alkylthioalcohol and substituted phosphorus 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
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol						
	Acute fish toxicity	LL50 mg/l	> 1000	96 h	Pimephales promelas	Study report (1985)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	Study report (2012)	OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	< 100	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202

12.2. Persistence and degradability

Not readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

The product has not been tested.

BCF

CAS No	Chemical name	BCF	Species	Source
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	15,7	Fish, not further specified.	Study report (2013)

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

The product has not been tested.

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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.

SECTION 14: Transport information

Land transport (ADR/RID)

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

Inland waterways transport (ADN)

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

Marine transport (IMDG)

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

Air transport (ICAO-TI/IATA-DGR)

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

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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

Information according to 2012/18/EU
(SEVESO III):

E2 Hazardous to the Aquatic Environment

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):

2 - obviously hazardous to water

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):

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

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

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

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

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

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

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

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

Classification	Classification procedure
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
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.

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.)