



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date	10th March 2023	Version	1.0
Revision date			

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

- 1.1. Product identifier**
Substance / mixture Hipospec ATF IV + mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Automatic transmission oil.
For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Mixture uses advised against
Not defined.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name SPECOL Sp. z o.o.
Address ul. Kluczborska 31, Chorzów, 41-508
Poland
VAT Reg No PL6272453121
Phone 32 245 91 33
E-mail info@specol.com.pl
Web address www.specol.com.pl
- Competent person responsible for the safety data sheet**
Name SPECOL Sp. z o.o.
E-mail info@specol.com.pl
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Aquatic Chronic 2, H411

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

Toxic to aquatic life with long lasting effects.

- 2.2. Label elements**
Hazard pictogram



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 to by handing over to the person authorized to dispose of waste or by returning to the supplier.

- 2.3. Other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date

10th March 2023

Revision date

Version

1.0

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 649-482-00-X CAS: 72623-86-0 EC: 276-737-9 Registration number: 01-2119474878-16	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	1,2-2,4	Asp. Tox. 1, H304	1, 2
CAS: 36878-20-3 EC: 253-249-4 Registration number: 01-2119488911-28	Benzenamine, ar-nonyl-N-(nonylphenyl)-	0,3-1,2	Aquatic Chronic 4, H413	
Index: 607-530-00-7 CAS: 125643-61-0 EC: 406-040-9 Registration number: 01-0000015551-76	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate	0,3-1,2	Aquatic Chronic 4, H413 Specific concentration limit: ATE Oral = 2000 mg/kg bw ATE Dermal = 2000 mg/kg bw	
EC: 424-820-7 Registration number: 01-0000017126-75	Alkyl phosphites	0,12-0,3	Acute Tox. 4, H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) Specific concentration limit: ATE Oral = 2000 mg/kg bw ATE Dermal = 500 mg/kg bw	

Notes

- 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.
- Fulfilled Note L

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date	10th March 2023	Version	1.0
Revision date			

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

If inhaled

Not expected.

If on skin

Not expected.

If in eyes

Not expected.

If swallowed

Not expected.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date

10th March 2023

Revision date

Version

1.0

DNEL

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	0.97 mg/kg/24h	Chronic effects systemic		
Workers	Inhalation	2.73 mg/m ³	Chronic effects systemic		
Workers	Inhalation	5.58 mg/m ³	Chronic effects local		
Consumers	Dermal	0.74 mg/kg/24h	Chronic effects systemic		

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	20 mg/kg	Acute effects systemic		
Workers	Dermal	1 mg/cm ²	Acute effects local		
Workers	Dermal	0.22 mg/kg	Chronic effects systemic		
Workers	Dermal	0.006 mg/cm ²	Chronic effects systemic		

PNEC

Alkyl phosphites

Route of exposure	Value	Value determination	Source
Drinking water	0.036 mg/l		
Freshwater sediment	0.128 mg/kg		
Soil (agricultural)	0.104 mg/kg		

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Route of exposure	Value	Value determination	Source
Drinking water	0.0043 mg/l		
Marine water	233 mg/kg		
Sea sediments	23.3 mg/kg		
Soil (agricultural)	189 mg/kg		

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	data not available
Odour	data not available
Melting point/freezing point	data not available



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date	10th March 2023	Version	1.0
Revision date			

Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	228 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	38 mm ² /s at 40 °C
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	0,870-0,880 g/cm ³ at 15 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

Alkyl phosphites

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	EU B.1	>2000 mg/kg			
Dermal	LD ₅₀	EU B.3	>500 mg/kg			
Oral	ATE		2000 mg/kg bw			
Dermal	ATE		500 mg/kg bw			

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation (dust/mist)	LC ₅₀	OECD 403	>5.53 mg/l	4 hours	Rat (Rattus norvegicus)	
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit	



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date

10th March 2023

Revision date

Version

1.0

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LC ₅₀	OECD 401	>5000 mg/l		Rat (<i>Rattus norvegicus</i>)	

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	>2000 mg/kg		Rat (<i>Rattus norvegicus</i>)	
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rat (<i>Rattus norvegicus</i>)	
Oral	ATE		2000 mg/kg bw			
Dermal	ATE		2000 mg/kg bw			

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Alkyl phosphites

Route of exposure	Result	Method	Exposure time	Species
Dermal	Highly irritating, Serious eye damage	EU B.4	4 hours	

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Route of exposure	Result	Method	Exposure time	Species
Dermal	Not irritating	OECD 404		Rabbit

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Alkyl phosphites

Route of exposure	Result	Method	Exposure time	Species
Eye	Serious eye damage			

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Route of exposure	Result	Method	Exposure time	Species
Eye	Not irritating	OECD 405		Rabbit
Eye	Not irritating	OECD 406		Guinea-pig (<i>Cavia aperea f. porcellus</i>)

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Alkyl phosphites

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Not irritating	EU B.6			

Germ cell mutagenicity

Alkyl phosphites

Result	Method	Exposure time	Specific target organ	Species	Sex
Positive	OECD 471				
Negative	OECD 473				

Carcinogenicity

Based on available data the classification criteria are not met.



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date

10th March 2023

Revision date

Version

1.0

Reproductive toxicity

Based on available data the classification criteria are not met.

Alkyl phosphites

Effect	Parameter	Method	Value	Result	Species	Sex
	NOAEL	OECD 421	150 mg/kg			

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Repeated dose toxicity

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	LOAEL		OECD 408	125 mg/kg	90 days	Rat (Rattus norvegicus)	
Skin	NOAEL		OECD 410	1000 mg/kg	21/28 days	Rabbit	
Inhalation (vapor)	NOAEL			0.98 mg/l	4 weeks	Rat (Rattus norvegicus)	
Inhalation (vapor)	NOAEL			0.15 mg/l	13 weeks	Rat (Rattus norvegicus)	

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Toxic to aquatic life with long lasting effects.

Alkyl phosphites

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₅₀	OECD 203	1.5 mg/l	96 hours	Fish (Oncorhynchus mykiss)		
EL ₅₀	OECD 202	0.09 mg/l	48 hours	Daphnia (Daphnia magna)		
EC ₅₀	EU C.3 (92/69/EEC)	0.09 mg/l	72 hours	Algae (Selenastrum capricornutum)		
NOAEC		0.14 mg/l	21 days	Daphnia (Daphnia magna)		

Benzenamine, ar-nonyl-N-(nonylphenyl)-

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EC ₅₀		600 mg/l	72 hours	Algae		Indicator of growth
EC ₅₀		733 mg/l	48 hours	Invertebrates		
LC ₅₀		>10000 mg/l	96 hours	Fish		



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date

10th March 2023

Revision date

Version

1.0

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EL ₅₀		>10000 mg/l	48 hours	Daphnia (Daphnia magna)		
LL ₅₀		>100 mg/l	96 hours	Fish (Pimephales promelas)		

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₅₀	OECD 203	>74 mg/kg	96 hours	Fish (Oncorhynchus mykiss)		
EC ₅₀	OECD 202	>100 mg/kg	24 hours	Daphnia (Daphnia magna)		
EC ₅₀	OECD 201	>3 mg/kg	72 hours	Algae (Selenastrum capricornutum)		

Chronic toxicity

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Parameter	Value	Exposure time	Species	Environment
NOEL	≥100 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	
NOEL	10 mg/l	21 days	Daphnia (Daphnia magna)	
NOEL	1000 mg/l	14 days	Fish (Oncorhynchus mykiss)	

12.2. Persistence and degradability

Biodegradability

Alkyl phosphites

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	52.9 %	60 days	Activated sludge	

Benzenamine, ar-nonyl-N-(nonylphenyl)-

Parameter	Method	Value	Exposure time	Environment	Result
					Hardly biodegradable

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	31 %	28 days		Biodegradable

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B				Hardly biodegradable

not available

12.3. Bioaccumulative potential

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	OECD 305	260	35 days	Fish (Oncorhynchus mykiss)		



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date	10th March 2023	Version	1.0
Revision date			

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date	10th March 2023	Version	1.0
Revision date			

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

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

Guidelines for safe handling used in the safety data sheet

P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL ₅₀	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₅₀	Lethal Loading for 50% of tested organisms
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million



SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Hipospec ATF IV +

Creation date	10th March 2023	Version	1.0
Revision date			

REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Skin Corr.	Skin corrosion

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.