SAFETY DATA SHEET

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

Spec Diesel SHPD CI-4 15W/40

Creation date	10th March 2023		
Revision date		Version	1.0

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

1.1. Product identifier — Spec Diesel SHPD CI-4 15W/40

Substance / mixture — mixture

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

Mixture's intended use

Engine Oils.

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 not classified as dangerous according to Regulation (EC) No 1272/2008.

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

2.2. Label elements

none

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.

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: 649-467-00-8 CAS: 64742-54-7 EC: 265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic	>80	not classified as dangerous	
Index: 649-468-00-3 CAS: 64742-55-8 EC: 265-158-7	Distillates (petroleum), hydrotreated light paraffinic	0,1-0,3	not classified as dangerous	1, 2

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 604-092-00-9 CAS: 74499-35-7 EC: 616-100-8	Phenol, (tetrapropenyl) derivs.	0,01-0,03	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	

Notes

1 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.

2 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.

If on skin

Remove contaminated clothes.

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.

If swallowed

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

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

Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

not available

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 chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

After removal of the product, wash the contaminated site with plenty of water.

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.

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.

DNEL

Phenol, (tetrapropenyl) derivs.

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.053 mg/m³	Chronic effects local		
Workers	Oral	0.25 mg/kg bw/day	Chronic effects local		
Workers	Dermal	0.25 mg/kg bw/day	Chronic effects local		

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

When handling in long-term or repeatedly, use protective gloves.

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.

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
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	220 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	110 mm²/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/cm³ at 15 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	data not available
Distillates (petroleum), hydrotreated light paraffinic (CAS: 64742-55-8)	liquid
Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)	liquid

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.

Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation	LC_{50}	OECD 403	5.53 mg/l	4 hours	Rat (Rattus norvegicus)	
Skin	LD_{50}	OECD 402	5000 mg/kg		Rabbit	
Oral	LD_{50}	OECD 401	5000 mg/kg		Rat (Rattus norvegicus)	

Distillates (petroleum), hydrotreated light paraffinic

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation	LC_{50}	OECD 403	>5.53 mg/l	4 hours	Rat (Rattus norvegicus)	
Dermal	LD_{50}	OECD 402	>5000 mg/kg		Rabbit	
Oral	LD_{50}	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)	

Phenol, (tetrapropenyl) derivs.

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD_{50}	OECD 402	15000 mg/kg		Rabbit	
Oral	LD_{50}	OECD 401	2200 mg/kg		Rat (Rattus norvegicus)	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Result	Method	Exposure time	Species
Dermal	Not irritating	OECD 404		Rabbit
Eye	Not irritating	OECD 405		Rabbit

Phenol, (tetrapropenyl) derivs.

Route of exposure	Result	Method	Exposure time	Species
Dermal	Highly irritating, Causes damage	OECD 404		Rabbit
Eye	Highly irritating, Serious eye damage, Causes damage	OECD 405		Rabbit

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Sensitization

Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Not sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)	

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Mutagenicity

Distillates (petroleum), hydrotreated heavy paraffinic

Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	
Negative	OECD 473				
Negative	OECD 476				
Negative	OECD 474				

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex
	NOAEL	OECD 451		78 weeks	Skin	Negative	Mouse	

Reproductive toxicity

Based on available data the classification criteria are not met.

Distillates (petroleum), hydrotreated heavy paraffinic

Effect	Parameter	Method	Value	Result	Species	Sex
Developmental toxicity		OECD 421		Negative	Rat (Rattus norvegicus)	
Effects on fertility		OECD 421		Negative	Rat (Rattus norvegicus)	
Developmental toxicity		OECD 414		Negative	Rat (Rattus norvegicus)	

Phenol, (tetrapropenyl) derivs.

Effect	Parameter	Method	Value	Result	Species	Sex
		OECD 416		Positive, Maternal toxicity	Rat (Rattus norvegicus)	
Effects on fertility		OECD 416		Positive	Rat (Rattus norvegicus)	
Developmental toxicity		OECD 416		Positive	Rat (Rattus norvegicus)	

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

Distillates (petroleum), hydrotreated heavy paraffinic

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	LOAEL		OECD 408	125 mg/kg	90 days	Rat (Rattus norvegicus)	
Dermal	NOAEL		OECD 411	30 mg/kg		Rat (Rattus norvegicus)	
Dermal	NOAEL		OECD 410	1000 mg/kg		Rabbit	
Inhalation	NOAEL			0.22 mg/l	4 weeks	Rat (Rattus norvegicus)	
Inhalation	NOAEL			0.15 mg/l	13 weeks	Rat (Rattus norvegicus)	

Distillates (petroleum), hydrotreated light paraffinic

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL		OECD 408	125 mg/kg	90 days	Rat (Rattus norvegicus)	
Skin	NOAEL		OECD 411	30 mg/kg	90 days	Rat (Rattus norvegicus)	
Skin	NOAEL		OECD 410	1000 mg/kg	21/28 days	Rabbit	
Inhalation (dust/mist)	NOAEL			0.15 mg/l	13 weeks	Rat (Rattus norvegicus)	

Distillates (petroleum), hydrotreated light paraffinic

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Inhalation (dust/mist)	NOAEL			0.22 mg/l	4 weeks	Rat (Rattus norvegicus)	
Inhalation (dust/mist)	NOAEL		OECD 412	0.05 mg/l	28 days	Rat (Rattus norvegicus)	

Phenol, (tetrapropenyl) derivs.

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL		OECD 407	60 mg/kg	28 days	Rat (Rattus norvegicus)	
Oral	NOAEL		OECD 416	15 mg/kg		Rat (Rattus norvegicus)	
Oral	NOAEL		OECD 408	100 mg/kg	90 days	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

Distillates (petroleum), hydrotreated heavy paraffinic

Parameter	Value	Exposure time	Species	Environment
EL_{50}	>10000 mg/l	48 hours	Daphnia (Daphnia magna)	
LL_{50}	>100 mg/l	96 hours	Fish (Pimephales promelas)	

Distillates (petroleum), hydrotreated light paraffinic

Parameter	Value	Exposure time	Species	Environment
EL_{50}	>10000 mg/l	48 hours	Daphnia (Daphnia magna)	
LL_{50}	>100 mg/l	96 hours	Fish (Pimephales promelas)	

Phenol, (tetrapropenyl) derivs.

Parameter	Value	Exposure time	Species	Environment
EL_{50}	0.36 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
EL_{50}	0.037 mg/l	48 hours	Daphnia (Daphnia magna)	
EL_{50}	0>1000 mg/l	3 hours	Microorganisms	
LL_{50}	40 mg/l	96 hours	Fish (Pimephales promelas)	

Chronic toxicity

Distillates (petroleum), hydrotreated heavy paraffinic

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)	

Distillates (petroleum), hydrotreated light paraffinic

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)	

Phenol, (tetrapropenyl) derivs.

Parameter	Value	Exposure time	Species	Environment
NOEL	0.07 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
NOEL	0.0037 mg/l	21 days	Daphnia (Daphnia magna)	

12.2. Persistence and degradability

Biodegradability

Distillates (petroleum), hydrotreated heavy paraffinic

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

Distillates (petroleum), hydrotreated light paraffinic

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

Phenol, (tetrapropenyl) derivs.

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	6-25 %	28 days		Hardly biodegradable

not available

12.3. Bioaccumulative potential

Phenol, (tetrapropenyl) derivs.

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	289-1601				

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).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

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

H314 Causes severe skin burns and eye damage.

H318	Causes serious eye damage.
H360F	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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
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 Kow	Octanol-water partition coefficient
NOAEL	No observed adverse effect level
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
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

Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Repr.	Reproductive toxicity
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.