XENOL HILL 5W-40 CI-4

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

1.1 - Product identifier

Trade name/designation **XENOL HILL 5W-40 CI-4**
Chemical name
Product-type Mixture

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

Relevant identified uses - Engine Oil

1.3 - Details of the supplier of the safety data sheet

XENOL ENERJİ A.Ş.
GEBKİM İhtisas OSB Nuri Türker Caddesi No:4
Dilovası / Kocaeli, Türkiye

Telephone : +90 262 646 11 01
Website : www.xenol.com / E-mail: info@xenol.com

1.4 - Emergency telephone number

- National Poisons Information Service of England: http://npis.org -
NHS 111: dial 111 United Kingdom

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Not Classified	Not classified

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word : None
Pictograms : None
Hazard statements : None
Precautionary statements : None
EUH-phrases

EUH210	Safety data sheet available on request.

2.3 - Other hazards

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

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Chemical name	No	%	Class(es)	Specific concentration limit
Lubricating oil [Note L]	CAS No. : 74869-22-0 Index No. : 649-484-00-0 EC No. : 278-012-2	>= 45 - < 50	Not Classified	
Distillates (petroleum), hydrotreated, heavy paraffinic [Note L]	CAS No. : 64742-54-7 Index No. : 649-467-00-8 EC No. : 265-157-1	>= 40 - < 45	Not Classified	
Distillates (petroleum), solvent-dewaxed heavy paraffinic [Note L]	CAS No. : 64742-65-0 Index No. : 649-474-00-6 EC No. : 265-169-7	>= 2 - < 3	Asp. Tox. 1 - H304	
1-Propene, polymer with ethene	CAS No. : 9010-79-1 Index No. : EC No. : 618-455-4	>= 1 - < 2	Not Classified	
Distillates (petroleum), solvent-refined heavy paraffinic [Note L]	CAS No. : 64741-88-4 Index No. : 649-454-00-7 EC No. : 265-090-8	> 0,7 - < 1	Not Classified	
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	CAS No. : 122384-87-6 Index No. : EC No. :	> 0,7 - < 1	Aquatic Chronic 4 - H413	
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	CAS No. : 84605-29-8 Index No. : EC No. : 283-392-8	> 0,3 - < 0,6	Aquatic Chronic 2 - H411 Eye Dam. 1 - H318 Skin Irrit. 2 - H315	Eye Irrit. 2 - H319 : 10<%<=12,5 Eye Dam. 1 - H318 : 12,5<%<=100 Skin Irrit. 2 - H315 : 6,25<=%<=100
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	CAS No. : 85940-28-9 Index No. : EC No. : 288-917-4	> 0,3 - < 0,6	Aquatic Chronic 2 - H411 Eye Dam. 1 - H318 Skin Irrit. 2 - H315	
Distillates (petroleum), hydrotreated light paraffinic [Note L] INCI: C21-28 ALKANE	CAS No. : 64742-55-8 Index No. : 649-468-00-3 EC No. : 265-158-7	> 0,1 - < 0,3	Not Classified	
Distillates (petroleum), solvent-dewaxed light paraffinic [Note L]	CAS No. : 64742-56-9 Index No. : 649-469-00-9 EC No. : 265-159-2	> 0,1 - < 0,3	Asp. Tox. 1 - H304	
phenol, (tetrapropenyl) derivatives	CAS No. : 74499-35-7 Index No. : 604-092-00-9 EC No. : 310-154-3	> 0,1 - < 0,3	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Eye Dam. 1 - H318 Repr. 1B - H360F Skin Corr. 1C - H314	M-factor: 10 / 10

- Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following skin contact	- No information available.
After eye contact	- Rinse immediately carefully and thoroughly with eye-bath or water.
After ingestion	- When in doubt or if symptoms are observed, get medical advice.

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

Symptoms and effects - Following inhalation	- No information available.
Symptoms and effects - Following skin contact	- No information available.
Symptoms and effects - After eye contact	- No information available.

Symptoms and effects - After ingestion	- No information available.

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

- No information available.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media	- ABC-powder - Water mist - Carbon dioxide (CO2)
Unsuitable extinguishing media	- Strong water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture	- No information available.
Hazardous decomposition products	- No information available.

5.3 - Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	- Use personal protection equipment. - Provide adequate ventilation.
For emergency responders	- Provide adequate ventilation. - Use personal protection equipment.

6.2 - Environmental precautions

- No information available.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment	- No information available.
Methods and material for cleaning up	- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). - Ventilate affected area.
Inappropriate techniques	- No information available.

6.4 - Reference to other sections

- Disposal: See section 13
- Personal protection equipment: see section 8
- Safe handling: See section 7

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SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation	- No information available.
Advices on general occupational hygiene	- No information available.

7.2 - Conditions for safe storage, including any incompatibilities

- Keep/store only in original container.

7.3 - Specific end use(s)

- Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

- No information available.

DNEL / PNEC

Lubricating oil [Note L] (74869-22-0)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	0,74 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	2,73 mg/m³	Workers	Systemic
DNEL long-term inhalative	5,58 mg/m³	Workers	Local
DNEL long-term dermal	0,97 mg/kg bw/day	Workers	Systemic
PNEC Secondary Poisoning	9,33 mg/kg		

Distillates (petroleum), hydrotreated light paraffinic [Note L] (64742-55-8)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	0,74 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	2,73 mg/m³	Workers	Systemic
DNEL long-term inhalative	5,58 mg/m³	Workers	Local
DNEL long-term dermal	0,97 mg/kg bw/day	Workers	Systemic
PNEC Secondary Poisoning	9,33 mg/kg		

Distillates (petroleum), solvent-refined heavy paraffinic [Note L] (64741-88-4)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	0,74 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	2,73 mg/m³	Workers	Systemic
DNEL long-term inhalative	5,58 mg/m³	Workers	Local
DNEL long-term dermal	0,97 mg/kg bw/day	Workers	Systemic

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	0,24 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	8,31 mg/m³	Workers	Systemic
DNEL long-term inhalative	2,11 mg/m³	Consumers	Systemic
DNEL long-term dermal	12,1 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	6,1 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0,004 mg/l		
PNEC aquatic, marine water	0,0004 mg/l		
PNEC aquatic, intermittent release	0,045 mg/l		
PNEC sediment, freshwater	0,022 mg/kg		

PNEC sediment, marine water	0,0022 mg/kg		
PNEC soil	0,002 mg/kg		
PNEC Secondary Poisoning	10,67 mg/kg		
PNEC sewage treatment plant (STP)	100 mg/l		

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	0,19 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	6,6 mg/m³	Workers	Systemic
DNEL long-term inhalative	1,67 mg/m³	Consumers	Systemic
DNEL long-term dermal	9,6 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	4,8 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0,002 mg/l		
PNEC aquatic, marine water	0,0002 mg/l		
PNEC aquatic, intermittent release	0,02 mg/l		
PNEC sediment, freshwater	19,3 mg/kg		
PNEC sediment, marine water	1,93 mg/kg		
PNEC soil	15,7 mg/kg		
PNEC sewage treatment plant (STP)	100 mg/l		

Distillates (petroleum), solvent-dewaxed light paraffinic [Note L] (64742-56-9)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	0,74 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	2,73 mg/m³	Workers	Systemic
DNEL long-term inhalative	5,58 mg/m³	Workers	Local
DNEL long-term dermal	0,97 mg/kg bw/day	Workers	Systemic

8.2 - Exposure controls

Appropriate engineering controls - No information available.

Individual protection measures, such as personal protective equipment

- Lab coat.
- Spectacles.



Environmental exposure controls - No information available.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

Physical state: Liquid
Appearance:
Colour:
Odour:

Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	225 °C

Evaporation rate	No data available
flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	0,85 g/cm³
Solubility (Water)	No data available
Solubility (Ethanol)	No data available
Solubility (Acetone)	No data available
Solubility (Organic solvents)	No data available
Log KOC	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	12,5 mm²/s < V < 16,3 mm²/s @ 100 °C
Dynamic viscosity	No data available

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

- No information available.

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

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

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- Stable under recommended storage and handling conditions.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- No information available.

SECTION 11: Toxicological information

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

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation gas (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- No information available.

Toxicity : Substances

Lubricating oil [Note L] (74869-22-0)	
LD50 oral (rat)	> 5000 mg/kg (OECD Guideline 401, Acute Oral Toxicity)
LD50 dermal (rat)	(OECD Guideline 403, Acute inhalation toxicity) There were no deaths during the study.
Distillates (petroleum), hydrotreated light paraffinic [Note L] (64742-55-8)	
LD50 oral (rat)	> 5000 mg/kg (OECD Guideline 401, Acute Oral Toxicity)
LD50 dermal (rabbit)	> 5000 mg/kg (OECD Guideline 402, Acute Dermal Toxicity)
Distillates (petroleum), solvent-refined heavy paraffinic [Note L] (64741-88-4)	
LD50 oral (rat)	> 5000 mg/kg (OECD Guideline 401, Acute Oral Toxicity)
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)	
LD50 oral (rat)	3100 mg/kg (OECD Guideline 401, Acute Oral Toxicity)
LD50 dermal (rat)	> 2002 mg/kg

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)	
LD50 oral (rat)	3080 mg/kg (OECD Guideline 401, Acute Oral Toxicity)
LD50 dermal (rabbit)	> 20000 mg/kg (OECD Guideline 402, Acute Dermal Toxicity)
LC50 inhalation dusts and mists (rat)	> 2,3 mg/l (OECD Guideline 403, Acute inhalation toxicity) Practically nontoxic.

Distillates (petroleum), solvent-dewaxed light paraffinic [Note L] (64742-56-9)	
LD50 oral (rat)	> 5000 mg/kg (OECD Guideline 401, Acute Oral Toxicity)
LD50 dermal (rabbit)	> 5000 mg/kg (OECD Guideline 402, Acute Dermal Toxicity)
LC50 inhalation dusts and mists (rat)	1,8 mg/l < V < 2,55 mg/l (OECD Guideline 403, Acute inhalation toxicity) Practically nontoxic.

Skin corrosion/irritation	- Not classified
	- No information available.
Serious eye damage/eye irritation	- Not classified
	- No information available.
Respiratory or skin sensitisation	- Not classified
	- No information available.
Germ cell mutagenicity	- Not classified
	- No information available.
Carcinogenicity	- Not classified
	- No information available.
Reproductive toxicity	- Not classified
	- No information available.
STOT-single exposure	- Not classified
	- No information available.
STOT-repeated exposure	- Not classified
	- No information available.
Aspiration hazard	- Not classified
	- No information available.

11.2 - Information on other hazards

- No information available.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
EL50 48 hr crustacea	No data available
LL50 96 hr fish	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- No information available.

Toxicity : Substances

Lubricating oil [Note L] (74869-22-0)	
EC50 48 hr crustacea	> 100 mg/l Daphnia magna (Big water flea)
LC50 96 hr fish	> 100 mg/l Pimephales promelas (fathead minnow)
ErC50 algae	> 100 mg/l Pseudokirchneriella subcapitata
Distillates (petroleum), hydrotreated light paraffinic [Note L] (64742-55-8)	
EC50 48 hr crustacea	> 10000 mg/l Daphnia magna (Big water flea)
LC50 96 hr fish	> 100 mg/l Pimephales promelas (fathead minnow)
NOEC chronic algae	> 100 mg/l Pseudokirchneriella subcapitata
Distillates (petroleum), solvent-refined heavy paraffinic [Note L] (64741-88-4)	
EC50 48 hr crustacea	> 1000 mg/l
NOEC chronic crustacea	> 1000 mg/l
NOEC chronic algae	> 100 mg/l

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)	
EC50 48 hr crustacea	23 mg/l Daphnia magna (Big water flea) OECD 202
LC50 96 hr fish	4,5 mg/l Oncorhynchus mykiss (rainbow trout)
ErC50 algae	21 mg/l Desmodesmus subspicatus OECD 201
NOEC chronic crustacea	> 0,53 mg/l Daphnia magna (Big water flea) OECD 211

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)	
EC50 48 hr crustacea	5,4 mg/l Daphnia magna (Big water flea) OECD 202
LC50 96 hr fish	4,5 mg/l Oncorhynchus mykiss (rainbow trout) OECD 203
ErC50 algae	2,1 mg/l Selenastrum capricornutum OECD 201
NOEC chronic crustacea	0,4 mg/l Daphnia magna (Big water flea) OECD 211
NOEC chronic algae	1 mg/l Selenastrum capricornutum OECD 201

Distillates (petroleum), solvent-dewaxed light paraffinic [Note L] (64742-56-9)	
EC50 48 hr crustacea	> 100 mg/l Daphnia magna (Big water flea)
LC50 96 hr fish	> 100 mg/l Pimephales promelas (fathead minnow)
ErC50 algae	> 100 mg/l Pseudokirchneriella subcapitata
NOEC chronic crustacea	> 100 mg/l Daphnia magna (Big water flea)

12.2 - Persistence and degradability

Mixture

Biochemical oxygen demand (BOD)	No data available

Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

Substances

Lubricating oil [Note L] (74869-22-0)	
% of biodegradation in 28 days	2 % < V < 4 % Not readily biodegradable (according to OECD criteria).

Distillates (petroleum), hydrotreated light paraffinic [Note L] (64742-55-8)	
% of biodegradation in 28 days	31,13 % Not readily biodegradable (according to OECD criteria).

Distillates (petroleum), solvent-refined heavy paraffinic [Note L] (64741-88-4)	
% of biodegradation in 28 days	31 % Not readily biodegradable (according to OECD criteria).

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)	
% of biodegradation in 28 days	1,5 % Not readily biodegradable (according to OECD criteria). OECD 301B (aerobik conditions)

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)	
% of biodegradation in 28 days	1,5 % Not readily biodegradable (according to OECD criteria). (aerobik conditions) OECD 301B

Distillates (petroleum), solvent-dewaxed light paraffinic [Note L] (64742-56-9)	
% of biodegradation in 28 days	2 % < V < 31 % Not readily biodegradable (according to OECD criteria).

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No information available.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

12.6 - Endocrine disrupting properties

- No information available.

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods	- No information available.
Sewage disposal	- No information available.
Special precautions for waste treatment	- No information available.
Community or national or regional provisions	- Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1 - UN number or ID number

Not applicable

14.2 - UN proper shipping name

Not applicable

14.3 - Transport hazard class(es)

Not applicable

14.4 - Packing group

Not applicable

14.5 - Environmental hazards

Not applicable

14.6 - Special precautions for user

Not applicable

14.7 - Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

Substances REACH candidates	None
Substances Annex XIV	None
Substances Annex XVII	None
VOC content	No data available

15.2 - Chemical Safety Assessment

SECTION 16: Other information

XENOL HILL 5W-40 CI-4

SDS versions

Version	Issue date	Author	Description of the amendments
1	03/07/2026		

Certificate holder: Fatih Bilgin - Chemical Assessment Expert. Certificate No.: TUV/11.253.03 - Certificate date: 16/08/2024

Abbreviations and acronyms

- ADR: The Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate.
- LC50: Lethal Concentration to 50 % of a test animals.
- LOEC: Lowest Observed Effect Concentration.
- LD50: Lethal Dose to 50% of a test animals.
- LOEL: Lowest Observed Adverse Effect Level.
- DNEL: Derived no-effect level.
- EC50: Effective concentration of the substance that causes adverse effects in 50% of test animals.
- IATA: International Air Transport Association.
- IMDG: International Maritime Dangerous Goods.
- EC No: European Community number
- NOEC: No Observed Effect Concentration.
- NOEL: No observable effect level.
- CAS No.: Chemical Abstracts Service number.
- ICAO: International Civil Aviation Organization
- PBT: Persistent, Bioaccumulative and Toxic.
- PNEC: Predicted no-effect concentration.
- RID: International Carriage of Dangerous Goods by Rail.
- STEL: Short-term exposure limit
- TWA: Time weighted average
- OEL: Occupational exposure limit.
- vPvB: very Persistent and very Bioaccumulative.

Texts of the regulatory sentences

Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2
Aquatic Chronic 4	Hazardous to the aquatic environment - Aquatic Chronic 4
Asp. Tox. 1	Aspiration hazard - Category 1
Eye Dam. 1	Serious eye damage, Category 1
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
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.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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Not Classified	Not classified
Repr. 1B	Reproductive toxicity - Category 1B (H360F)
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Irritation, Category 2

The information provided in this Safety Data Sheet (SDS) is current on the date the SDS was prepared or revised. Implementation of measures that are provided on SDS is under downstream user companies' responsibility. Downstream users may change the measures in the SDS according to the conditions in their own business.

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