



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

CERAMIZER CS additive for lubrication and regeneration of any type of four stroke engine.

Creation date 03rd January 2007
Revision date 22nd August 2022 Version 3.0

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

- 1.1. Product identifier** CERAMIZER CS additive for lubrication and regeneration of any type of four stroke engine.
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
For four-stroke engine oil.
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name Ceramizer D. Kosiorek Sp. Komandytowa
Address ul. Bartycka 116, Warszawa, 00-716
Poland
Phone +48 22 498 09 08
E-mail info@ceramizer.pl
Competent person responsible for the safety data sheet
Name Ceramizer D. Kosiorek Sp. Komandytowa
E-mail info@ceramizer.pl
- 1.4. Emergency telephone number**
+48 22 498 09 08 (8-16)
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**
Precautionary statements
P102 Keep out of reach of children.
P501 Dispose of contents/container to according to applicable regulations.
- 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**
Chemical characterization
Product contains, in addition to those mentioned, a mixture of silicates, copper [CAS 7440-50-8]. Baseoil may consists one of the following CAS 64742-54-7, CAS 64742-55-8, CAS 64742-65-0.

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	Baseoil - unspecified	25-30	not classified as dangerous	1, 3
Index: 649-254-00-X CAS: 8009-03-8 EC: 232-373-2	Petrolatum	15-20	not classified as dangerous	2, 4



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Notes

- 1 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 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.
- 2 Note N: The harmonised classification as a carcinogen applies unless the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen, in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.
- 3 Fulfilled Note L
- 4 Fulfilled Note N

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.

More information

Other relevant information is not available.

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



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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**
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)**
Apart from the already mentioned guidelines, it is not necessary to follow any specific recommendations for the use of this product.

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters**
Product does not contain substances for which occupational exposure limits are set.

PNEC

Baseoil - unspecified

Route of exposure	Value	Value determination	Source
Oral	9.33 mg/kg of food		Zatrucie wtórne

Petrolatum

Route of exposure	Value	Value determination	Source
Oral	9.33 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**
EN166 - Personal Eye Protection Standard. In case of splash use safety glasses.
- Skin protection**
When handling in long-term or repeatedly, use protective gloves. Recommended material: neoprene (CR), permeation 6 (> 480min), thickness> 0.7mm, in accordance with EN 374. Other protection: protective workwear.
- Respiratory protection**
Mask with particle filter (AX) in a poorly ventilated environment. The equipment should comply with PN EN 14387.
- Thermal hazard**
Unknown.
- 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 | brown |
| Odour | characteristic |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | >300 °C |
| Flammability | non-inflammable |



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Lower and upper explosion limit not determined
Flash point >200 °C
Auto-ignition temperature not determined
Decomposition temperature not determined
pH non-soluble (in water)
Kinematic viscosity 239,9 mm²/s at 40 °C
Solubility in water insoluble
Solubility (petrol, xylene, organic solvents e.g. chloroform, ether) soluble
Partition coefficient n-octanol/water (log value) not determined
Vapour pressure not determined
Density and/or relative density
Density 1,0744 g/cm³
Relative vapour density not determined
Particle characteristics not applicable
Form liquid: viscous

9.2. Other information none

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

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

No toxicological effects are expected if occupational exposure limits are not exceeded. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

Baseoil - unspecified

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat		Analogous approach
Inhalation	LC ₅₀	OECD 403	>5.53 mg/l	4 hour	Rat		Analogous approach
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit		Analogous approach

Petrolatum

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀		>5000 mg/kg bw		Rat		
Dermal	LD ₅₀		>2000 mg/kg bw		Rat		

Skin corrosion/irritation

Based on available data the classification criteria are not met.



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Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

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

Baseoil - unspecified

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination
Dermal	NOAEL		OECD 410	1000 mg/kg	4 week	Rabbit		Analogous approach
Inhalation (dust/mist)	NOAEL			>980 mg/m ³	4 week	Rat		

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

It is not expected to be harmful to the aquatic environment

Baseoil - unspecified

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC ₅₀	OECD 203	>100 mg/l	96 hour	Fishes (Pimephales promelas)		Analogous approach	
EC ₅₀	OECD 202	>10000 mg/l	48 hour	Daphnia (Daphnia magna)		Analogous approach	
EC ₅₀	OECD 201	>100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		Analogous approach	
NOEC		>1.93 mg/l	10 min	Microorganisms		Analogous approach	DIN 38 412 Part 8
NOEC	OECD 211	10 mg/l	21 day	Daphnia (Daphnia magna)		Analogous approach	

Petrolatum

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LL 50		>1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)			



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Petrolatum

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LL 50		>1000 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)			
EL 50		>1000 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)			
EL 50		>1000 mg/l	72 hour	Bacteria			

12.2. Persistence and degradability

Biodegradability

Baseoil - unspecified

Parameter	Method	Value	Exposure time	Environment	Value determination	Result
	OECD 301F	10 %	56 day		Analogous approach	

There are no ecotoxicological data available for the product.

12.3. Bioaccumulative potential

There are no ecotoxicological data available for the product.

12.4. Mobility in soil

There are no ecotoxicological data available for the product.

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

Unknown.

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 08 other 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



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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.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

Guidelines for safe handling used in the safety data sheet

P102 Keep out of reach of children.
P501 Dispose of contents/container to according to applicable regulations.

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
CE ₅₀	Concentration of a substance when it is affected 50% of the population
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EINECS	European Inventory of Existing Commercial Chemical Substances
EL ₅₀	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
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
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
log K _{ow}	Octanol-water partition coefficient
LZO	Volatile organic compounds
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration



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ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UE	European Union
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
vPvB	Very Persistent and very Bioaccumulative
WE	Identification code for each substance listed in EINECS

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

Uses advised against: Any type of use not listed in this Safety Data Sheet.

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.

The changes (which information has been added, deleted or modified)

Version 3.0 replaces SDS version 2.1. General update - the adaptation to current legislation

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.