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

1.1 Product identifier

CERAMIZER CS Ohne Shot (CSOS) additive for lubrication and regeneration of any type of four stroke engine.

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

Relevant identified uses: For four-stroke engine oil.

Uses advised against: No further relevant information available.

1.3 Details of the supplier of the safety data sheet:

Supplier:	Ceramizer Sp. z o.o.
Street address:	Bartycka 116
Country/Postcode:	Poland, 00-716 Warszawa
Telephone number:	+48 22 498 09 08
E-mail:	info@ceramizer.pl

1.4 Emergency telephone number: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Mixture:

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

Classification of the mixture	Regulation (EC) No 1272/2008 (CLP)
Hazard	
Physical and chemical properties	Not classified
Human	Not classified
Environment	Not classified

2.2 Label elements

Supplemental information on the label:

Not applicable

Hazard pictograms:

Not applicable

Signal word:

Not applicable

Hazard statements:

Not applicable

Precautionary statements:

P102 Keep out of reach of children.

P501 Dispose of contents/container to in accordance with local/ regional/national/international regulation.

2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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SECTION 3: Composition/information on ingredients

3.1 Substances: Not applicable.

3.2 Mixtures: Contains a mixture of silicates, copper [CAS 7440-50-8]

Name	Identifiers	[% weight]	Classification according to Regulation (EC) No 1278/2008 (CLP).
Baseoil - unspecified*	Index No: 649-467-00-8 EC No: 265-157-1 CAS No: 64742-54-7 REACH Registration No.: -	40	Carc. 1B H350 (note L)**
Petrolatum	Index No: 649-254-00-X EC No: 232-373-2 CAS No: 8009-03-8 REACH Registration No.: -	30	Carc. 1B H350 (note N)***

*Baseoil may consists one of the following: CAS 64742-54-7, CAS 64742-55-8, CAS 64742-65-0.

** **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.

*****Note N** - The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil-derived substances in Part 3.

The Full Text for all H-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Following eye contact: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention in case of irritation.

Following inhalation: Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

Following skin contact: Immediately remove contaminated clothing. Wash the skin with soap and water. Contaminated clothing should be washed before re-use. Get medical attention promptly if symptoms occur after washing.

Following ingestion: Immediately rinse mouth. Never give anything by mouth to an unconscious person. Seek medical advice. Provide ventilation.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

If any symptoms persist seek medical advice and show the msds or label.

Notes for the doctor: Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: do not use water in a jet.

5.2 Special hazards arising from the substance or mixture

On burning may emit toxic fumes (carbon oxides, carbon dioxide).

5.3 Advice for firefighters

Special Fire Fighting Procedures: Wear full protective clothing and self-contained breathing apparatus.

Protective equipment for fire-fighters: Keep containers cool by spraying with water. If possible remove containers from the danger zone. Prevent from spreading or entering drains, ditches or rivers. Dispose of released and contained material in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Removed from the danger area all persons not involved in the emergency. If necessary, order the evacuation. Avoid contact with skin, eyes. Avoid inhalation of vapours / aerosols. Provide ventilation.

For emergency responders:

Wear protective clothing as described in Section 8.

6.2 Environmental precautions

Do not discharge into drains, water courses or into the ground. Local authorities should be advised if any exposure to the environment occurs.

6.3 Methods and material for containment and cleaning up

Stop leak if without risk. Remove containers from spill area. Absorb with liquid-binding material (eg. sawdust, sand). Collect in a waste container. Dispose of waste according to the applicable local and national regulation.

6.4 Reference to other sections

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures:

Use only in a well-ventilated area. Avoid breathing vapor or aerosol. Avoid contact with eyes, skin. When handling, use appropriate personal protective equipment (see Section 8). Keep away from heat. Do not smoke! When using do not eat or drink.

Advice on general occupational hygiene:

Ensure good ventilation / exhaustion at the workplace. When using do not eat, drink or smoke. Wash hand before and after work with product. Contaminated clothing should be washed before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Avoid mechanical contamination and water contact. Keep away from heat, sparks, sunlight, open flame and smoking. Do not store together with oxidizing agents.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

International Limits Values:

Substance	CAS No:	Basis / Country	Short Time Value [mg/m ³]	Short Time Value [ppm-Calculated]	Time Weighted Average Exposure Limit [mg/m ³ -8 h]	Time Weighted Average Exposure Limit [ppm-Calculated]
Copper	7440-50-8	Germany UE	0,02(1)(2) -	- -	0,01(1) -	- -

Respirable fraction (2) 15 minutes reference period

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Baseoil

Route of exposure	WORKERS		CONSUMERS	
	Acute effect local	Acute effects systemic	Acute effect local	Acute effects systemic
Oral	No data available	No data available	Hazard unknown but no further hazard information necessary as no exposure expected	Hazard unknown but no further hazard information necessary as no exposure expected
Inhalation	No hazard identified	No hazard identified	Hazard unknown but no further hazard information necessary as no exposure expected	Hazard unknown but no further hazard information necessary as no exposure expected
Dermal	No hazard identified	No hazard identified	Hazard unknown but no further hazard information necessary as no exposure expected	Hazard unknown but no further hazard information necessary as no exposure expected

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Baseoil

Environmental protection target	PNEC
Freshwater	no data available: testing technically not feasible
Freshwater sediments	no data available: testing technically not feasible
Marine water	no data available: testing technically not feasible
Marine sediments	no data available: testing technically not feasible
Food chain	9.33 mg/kg food
Microorganisms in sewage treatment	no data available: testing technically not feasible
Soil (agricultural)	no data available: testing technically not feasible
Air	no data available: testing technically not feasible

Petrolatum

Environmental protection target	PNEC
Freshwater	no data available: testing technically not feasible
Freshwater sediments	no data available: testing technically not feasible

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Marine water	no data available: testing technically not feasible
Marine sediments	no data available: testing technically not feasible
Food chain	9.33 mg/kg food
Microorganisms in sewage treatment	no data available: testing technically not feasible
Soil (agricultural)	no data available: testing technically not feasible
Air	no data available: testing technically not feasible

8.2 Exposure controls

Appropriate engineering controls

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Individual protection measures, such as personal protective equipment

Eyeface protection

Avoid contact with eyes. Wear approved chemical safety goggles where eye exposure is reasonably probable. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166.

Skin protection:

Hand protection: Use gloves. Gloves must be inspected prior to use. Recommended gloves:

Material: neoprene

Minimum layer thickness: >0.7 mm

Break through time: ≥480 min

The selected protective gloves have to satisfy the specifications of Directive 89/686 / EEC and EN 374.

Other: Wear protective clothing. Contaminated clothing should be washed before re-use.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a face respirator. It is recommended to use respiratory equipment with filter AX.

Environmental exposure controls

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour. Do not discharge into drains, water courses or into the ground. Local authorities should be advised if any exposure to the environment occurs.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Dense, brown liquid
Odour	Specific for oil product
Odour threshold	No data available
pH	7,5 (neutral)
Melting point / freezing point	No data available
Initial boiling point and boiling range	>300°C
Flash point	>200°C
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1,02 g/cm ³
Solubility(ies)	Highly poor in the water; Good in petrol, xylene, etc, organic solvents: carbon

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chemokine, chloroform, ether.	
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	239,9 mm*s (40 ⁰ C)
Explosive properties	No data available
Oxidising properties	No data available

9.2 Other information:

No data available.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Not reactive under normal conditions of storage and use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions under normal conditions of storage and use.

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Strong oxidants.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

No data available for the mixture.

Baseoil

LD50 (rat, oral)	>5000 mg/kg bw
LC50 (rat, inhalation)	> 5.3 mg/L air
LD50 (rat, dermal)	>2000 mg/kg bw

Petrolatum

LD50 (rat, oral)	>5000 mg/kg bw
LC50 (inhalation)	No data available
LD50 (rat, dermal)	>2000 mg/kg bw

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

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

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Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

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.

Additional information

No further relevant information available.

SECTION 12: Ecological information

12.1 Toxicity

No data available for the mixture

Baseoil

Fish (Pimephales promelas)	LL50	> 100 mg/L exposition time: 96h
Aquatic invertebrates (Daphnia magna)	EL50	> 10 000 mg/L exposition time: 48h
Algae and bacteria (Pseudokirchnerella subcapitata)	NOEL	> 100 mg/L exposition time: 72h

Petrolatum

Fish (Oncorhynchus mykiss)	LL50	> 1000 mg/L exposition time: 96h
Aquatic invertebrates (Daphnia magna)	LL50	> 1000 mg/L exposition time: 48h
Algae and bacteria (Pseudokirchnerella subcapitata)	EL50	> 1000 mg/L exposition time: 72h

12.2 Persistence and degradability

No data available for the mixture.

12.3 Bioaccumulative potential

No data available for the mixture.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

Proposed waste code

13 02 08* other engine, gear and lubricating oils

SECTION 14: Transport Information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1. UN number	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable

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14.4. Packing group	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards	Not applicable	Not applicable	Not applicable	Not applicable
14.6. Special precautions for user	Not applicable	Not applicable	Not applicable	Not applicable
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory information

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

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

2014/955/EU: Commission Decision of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council Text with EEA relevance.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Classification according to Regulation (EC) No. 1272/2008

Classification procedure: calculation method

The product is not classified as hazardous under EC Regulation 1272/2008 (CLP).

Relevant H-statements (number and full text)

H350 May cause cancer

Additional Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, Information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Product Safety Data Sheet to their own Product Safety Data Sheet.