



# SAFETY DATA SHEET

## CERIUM OXIDE

Issued on 07/12/2015 - Rel. # 1 on 09/07/2021

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In conformity to Regulation (EU) 2020/878

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product code : CERIUM OXIDE

Trades code : M200/M201 - G200/G201 - HP200/HP201 - HP203 - G203 - M203

HP60 - HP61 - HP62 - HP63 - HP64 - HP65 - HP66 - HP67 - HP68 - HP69 - HP70 - HP71 - HP72

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

Additives for fuel combustion and/or

Sectors of use:

Industrial Manufacturing[SU3], Public domain[SU22]

Product category:

Automotive Care Products

Process categories:

Not translated

Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

GiPro S.r.l.

Via A.Olivetti 7/9

Riva di Chieri (TO) - Italy

Tel. +39 011 9468873 Fax +39 011 9468841

info@gipro.it

#### 1.4. Emergency telephone number

MULTI LINGUAL EMERGENCY NUMBER (24/7)

Europe/Latin America/Africa : +44 1235 239 670 (UK)

Middle East/Africa speaking Arabic : +44 1235 239 671 (UK)

Asia Pacific : +65 3158 1074 (Singapore)

China : +86 10 5100 3039 (Beijing)

North America : 800 424 9300

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS05, GHS07, GHS08, GHS09

Hazard Class and Category Code(s):

Asp. Tox. 1, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Carc. 2, Repr. 1B, Aquatic Chronic 2

Hazard statement Code(s):

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.



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- H318 - Causes serious eye damage.
- H336 - May cause drowsiness or dizziness.
- H351 - Suspected of causing cancer.
- H360FD - May damage fertility. May damage the unborn child.
- H411 - Toxic to aquatic life with long lasting effects.

The product can be fatal if swallowed and enters airways  
If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.  
If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

Warning: Vapours inhalation may cause sleepiness and giddiness

The product may pose a risk of carcinogenesis.

Warning: This product may damage fertility and may damage the unborn child.

The product is dangerous to the environment as it is toxic to aquatic life with long lasting effects

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:



Pictogram, Signal Word Code(s):

GHS05, GHS07, GHS08, GHS09 - Danger

Hazard statement Code(s):

- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H336 - May cause drowsiness or dizziness.
- H351 - Suspected of causing cancer.
- H360FD - May damage fertility. May damage the unborn child.
- H411 - Toxic to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

Prevention

P201 - Obtain special instructions before use.

P261 - Avoid breathing vapours/spray.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER/doctor.

P312 - Call a POISON CENTER/doctor if you feel unwell.

P331 - Do NOT induce vomiting.

P391 - Collect spillage.

Storage

P405 - Store locked up.

Disposal

P501 - Dispose of contents/container according to local law.



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Contains:

Hydrocarbons, C10, aromatics > 1%, Hydrocarbons C10-C13, aromatics, >1% naphtalene, ferrocene, IPSOL L

### 2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with the provisions of Legislative Decree n. 81 April 9, 2008. Workers exposed to this chemical agent should not be subject to health surveillance if the results of the risk assessment show that, depending on the type and amount of hazardous chemical agent and the method and frequency of exposure to the agent, you only a "moderate risk" for the health and safety of workers and that the measures envisaged in the same legislative decree are sufficient to reduce the risk.

RESTRICTED TO PROFESSIONAL USERS

Packaging to be fitted with child-resistant fastenings

Packaging to be fitted with a tactile warning

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Irrilevant

### 3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
IPSOL L	>= 30 < 50%	Asp. Tox. 1, H304	01-211945681 0-4		920-901-0	
Hydrocarbons,C10,aromatics>1%	>= 30 < 50%	EUH066; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 2, H411	01-211946358 8-2	64742-94-5	265-198-5	
Hydrocarbons C10-C13,aromatics,>1%naphtalene	>= 10 < 20%	Skin Irrit. 2, H315; Eye Dam. 1, H318		7491-09-0	231-308-5	
naphthalene	>= 1 < 5%	Acute Tox. 4, H302; Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	601-052-00-2	91-20-3	202-049-5	01-2119484 4819-18
ferrocene	>= 1 < 5%	Flam. Sol. 1, H228; Acute Tox. 4, H332; Acute Tox. 4, H332; Repr. 1B, H360FD; STOT RE 2, H373; Aquatic Chronic 1, H410		102-54-5	203-039-3	01-2119978 280-34

## SECTION 4. First aid measures



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### 4.1. Description of first aid measures

#### Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated room. CALL A PHYSICIAN.

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

If breathing has stopped, give artificial respiration.

#### Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

#### Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

#### Ingestion:

The product is harmful and can cause irreversible damages even following a single exposure if swallowed. Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

No data available.

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

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If medical advice is needed, have product container or label at hand.

Call a POISON CENTER/doctor if you feel unwell.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### Advised extinguishing agents:

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

#### Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

### 5.2. Special hazards arising from the substance or mixture

No data available.

### 5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction



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You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

### SECTION 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

#### 6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

#### 6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

To clean the floor and all objects contaminated by this material use technical products.

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

Nothing in particular.

#### 6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

### SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

Wear protective gloves/protective clothing/eye protection/face protection.

In residential areas do not use on large surfaces.

At work do not eat or drink.

See also paragraph 8 below.



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### 7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.  
Keep containers upright and safe by avoiding the possibility of falls or collisions.  
Store in a cool place, away from sources of heat and direct exposure of sunlight.

### 7.3. Specific end use(s)

Industrial Manufacturing:  
Handle with extreme caution.  
Store in a well ventilated place away from heat sources.

Public domain:  
Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

IPSOL L  
\*\*\*\* Not translated \*\*\*\*

hydrocarbons,C10,aromatics>1%  
\*\*\*\* Not translated \*\*\*\*

hydrocarbons C10-C13,aromatics,>1%  
naphtalene \*\*\*\* Not translated \*\*\*\*

naphtalene  
\*\*\*\* Not translated \*\*\*\*

ferrocene  
\*\*\*\* Not translated \*\*\*\*

- Substance: Hydrocarbons,C10,aromatics>1%

DNEL  
Systemic effects Long term Workers inhalation = 151 (mg/m<sup>3</sup>)  
Systemic effects Long term Workers dermal = 12,5 (mg/kg bw/day)  
Systemic effects Long term Consumers inhalation = 32 (mg/m<sup>3</sup>)  
Systemic effects Long term Consumers dermal = 7,5 (mg/kg bw/day)

- Substance: Hydrocarbons C10-C13,aromatics,>1%naphtalene

DNEL  
Systemic effects Long term Workers inhalation = 151 (mg/m<sup>3</sup>)  
Systemic effects Long term Workers dermal = 12,5 (mg/kg bw/day)  
Systemic effects Short term Workers inhalation = 32 (mg/m<sup>3</sup>)  
Systemic effects Short term Workers dermal = 7,5 (mg/kg bw/day)  
Systemic effects Short term Consumers oral = 7,5 (mg/kg bw/day)

### 8.2. Exposure controls

Appropriate engineering controls:  
Industrial Manufacturing:  
No specific monitoring foreseen





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Public domain:

No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection

Wear mask

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Use adequate protective respiratory equipment (EN 14387:2008)

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

IPSOL L

\*\*\*\* Not translated \*\*\*\*

naphtalene

\*\*\*\* Not translated \*\*\*\*

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	liquid, limpid	
Colour	dark red	
Odour	typical of hydrocarbons	
Odour threshold	not determined	
pH	irrelevant	
Melting point/freezing point	- 8 °C	
Initial boiling point and boiling range	>160 °C	
Flash point	>61°C	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not determined	
Vapour density	not determined	
Relative density	0,770 - 0,820	
Solubility(ies)	complete in hydrocarbons	



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Physical and chemical properties	Value	Determination method
Water solubility	neglectable	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	> 160 °C	
Decomposition temperature	not determined	
Viscosity	minimum 2 cSt (40°C)	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

### 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

No reactivity hazards

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 10.3. Possibility of hazardous reactions

There are no hazardous reactions

### 10.4. Conditions to avoid

Nothing to report

### 10.5. Incompatible materials

Nothing in particular.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

ATE(mix) oral = 9.375,0 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = 183,3 mg/l/4 h





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- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
- (c) serious eye damage/irritation: If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: The product may pose a risk of carcinogenesis.
- (g) reproductive toxicity: Warning: This product may damage fertility and may damage the unborn child.
- (h) specific target organ toxicity (STOT) single exposure: Warning: Vapours inhalation may cause sleepiness and giddiness
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
- (j) aspiration hazard: The product can be fatal if swallowed and enters airways

IPSOL L

\*\*\*\* Not translated \*\*\*\*

naphthalene:

LD50 (rat) Oral (mg/kg body weight) = 450

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2550

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 350

naphtalene

\*\*\*\* Not translated \*\*\*\*

ferrocene

\*\*\*\* Not translated \*\*\*\*

### 11.2. Information on other hazards

No data available.

## SECTION 12. Ecological information

### 12.1. Toxicity

IPSOL L

\*\*\*\* Not translated \*\*\*\*

hydrocarbons, C10, aromatics >1%

\*\*\*\* Not translated \*\*\*\*

hydrocarbons C10-C13, aromatics, >1%

naphtalene \*\*\*\* Not translated \*\*\*\*

naphthalene:

C(E)L50 (mg/l) = 1,96

naphtalene

\*\*\*\* Not translated \*\*\*\*

ferrocene

\*\*\*\* Not translated \*\*\*\*



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The product is dangerous for the environment as it is toxic to aquatic organisms following acute exposure.

Use according to good working practices to avoid pollution into the environment.

### 12.2. Persistence and degradability

IPSOL L

\*\*\*\* Not translated \*\*\*\*

hydrocarbons,C10,aromatics>1%

\*\*\*\* Not translated \*\*\*\*

hydrocarbons C10-C13,aromatics,>1%

naphtalene \*\*\*\* Not translated \*\*\*\*

ferrocene

\*\*\*\* Not translated \*\*\*\*

### 12.3. Bioaccumulative potential

IPSOL L

\*\*\*\* Not translated \*\*\*\*

hydrocarbons,C10,aromatics>1%

\*\*\*\* Not translated \*\*\*\*

hydrocarbons C10-C13,aromatics,>1%

naphtalene \*\*\*\* Not translated \*\*\*\*

ferrocene

\*\*\*\* Not translated \*\*\*\*

### 12.4. Mobility in soil

IPSOL L

\*\*\*\* Not translated \*\*\*\*

hydrocarbons,C10,aromatics>1%

\*\*\*\* Not translated \*\*\*\*

hydrocarbons C10-C13,aromatics,>1%

naphtalene \*\*\*\* Not translated \*\*\*\*

ferrocene

\*\*\*\* Not translated \*\*\*\*

### 12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present



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### 12.6. Endocrine disrupting properties

No data available.

### 12.7. Other adverse effects

No adverse effects

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

## SECTION 14. Transport information

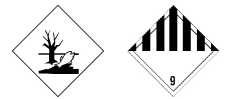
### 14.1. UN number

ADR/RID/IMDG/ICAO-IATA: 3082

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg



### 14.2. UN proper shipping name

ADR/RID/IMDG: MATERIA PERICOLOSA PER L'AMBIENTE, LIQUIDA, N.A.S.

ADR/RID/IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

ICAO-IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### 14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 9

ADR/RID/IMDG/ICAO-IATA: Label : 9+Environment

ADR: Tunnel restriction code : --

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L

IMDG - EmS : F-A, S-F

### 14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

### 14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is environmentally hazardous

IMDG: Marine polluting agent : Yes



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### 14.6. Special precautions for user

The transport must be carried out by authorised vehicles carrying dangerous goods in accordance with the requirements of the current edition of the agreement and the provisions A.D.R national regulations.

The transport must be carried out in the original packaging and in packages that are made from materials resistant to the content and not likely to generate with this dangerous reactions. Employees to the loading and unloading of dangerous goods have received proper training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

## SECTION 15. Regulatory information

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

IPSOL L

\*\*\*\* Not translated \*\*\*\*

Seveso category:

E2 - ENVIRONMENTAL HAZARDS

REGULATION (EU) No 1357/2014 - waste:

HP4 - Irritant — skin irritation and eye damage

HP5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP7 - Carcinogenic

HP10 - Toxic for reproduction

HP14 - Ecotoxic

### 15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

## SECTION 16. Other information

### 16.1. Other information

Description of the hazard statements exposed to point 3

H304 = May be fatal if swallowed and enters airways.

H336 = May cause drowsiness or dizziness.

H411 = Toxic to aquatic life with long lasting effects.

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

H302 = Harmful if swallowed.

H351 = Suspected of causing cancer .

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

H228 = Flammable solid.

H332 = Harmful if inhaled.

H360FD = May damage fertility. May damage the unborn child.

H373 = May cause damage to organs through prolonged or repeated exposure .

H226 = Flammable liquid and vapour.



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H319 = Causes serious eye irritation.  
H335 = May cause respiratory irritation.

Classification based on data of all mixture components

### GENERAL BIBLIOGRAPHY:

- Council Regulation (EC) 1907/2006 of the European Parliament (REACH)
- Regulation (EC) 1272/2008 of the European Parliament (CLP) and subsequent updates
- Council Regulation (EC) no 758/2013 of the European Parliament
- Regulation (EC) no 2020/878 of the European Parliament
- Regulation (EC) No 528/2012 European Parliament and subsequent updates
- Council Regulation (EC) 648/2004 of the European Parliament and subsequent updates
- The Merck Index
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique
- Patty-Industrial Hygiene and Toxicology
- N.I. Sax-Dangerous properties of Industrial Materials-7 Ed., 1989

### Note to the user:

the information in this tab are based on knowledge available to us on the date of the latest version.  
The user must ensure the fitness and completeness of the information in relation to the specific use of the product.  
You should not interpret it as a guarantee of any specific property of the product.  
For the use of the product does not fall under our direct control, the obligation of the user to observe under their own liability laws and regulations on hygiene and safety. Do not assume liability for improper use.

This tab replaces and cancels all previous

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