

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

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

· **1.1 Product identifier**

· **Trade name:** SECURALLOY

· **Article number / formula:** N068

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
commercial and / or industrial use

· **Application of the substance / the preparation :** dental product

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

SEPTODONT.

58 rue du Pont de Creteil

94100 Saint Maur des Fosses

France

Téléphone: +33(0)149767000

Fax: +33(0)148855401

msds@septodont.com

http://www.septodont.com

· **1.4 Emergency telephone number:**

France (INRS 24h/24) - Tel : +33 (0)1 45 42 59 59

Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112

Belgique - Tel : 32 070/245 245

UK : +44 (0)-870-190-6777 (CARECHEM24)

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

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



GHS06

Acute Tox. 2 H310 Fatal in contact with skin.

Acute Tox. 2 H330 Fatal if inhaled.



GHS08

Repr. 1B H360D May damage the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS09

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

Trade name: SECURALLOY

(Contd. of page 1)

· 2.2 Label elements

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

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS06 GHS08 GHS09

· Signal word Danger

· Hazard-determining components of labelling:

mercury

copper

· Hazard statements

H302 Harmful if swallowed.

H310+H330 Fatal in contact with skin or if inhaled.

H360D May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

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

P301+P310 IF SWALLOWED: Immediately call a doctor.

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P330 Rinse mouth.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

· Additional information:

Restricted to professional users.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.




· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· **Description:** Mixture: consisting of the following components.

· Dangerous components:

CAS: 7439-97-6 EINECS: 231-106-7 Index number: 080-001-00-0 RTECS: OV 4550000	mercury  Acute Tox. 2, H330;  Repr. 1B, H360D; STOT RE 1, H372;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	25-50%
--	--	--------

· **SVHC** No

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

Trade name: SECURALLOY

(Contd. of page 2)

· **Additional information:** For the wording of the listed risk phrases, refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After excessive inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient in a stable laying down side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: If symptoms persist consult a doctor.

· 4.2 Most important symptoms and effects, both acute and delayed :

Headache

Dizziness

Dizziness

Gastric or intestinal disorders

Unconsciousness

· 4.3 Indication of any immediate medical attention and special treatment needed :

If swallowed or in case of vomiting, danger of entering the lungs.

Monitor circulation.

Medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

· 5.1 Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture :

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Mercury vapor

· 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures :

Wear protective equipment. Keep unprotected persons away.

Wear a respiratory protective device.

Ensure adequate ventilation

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow the product to enter sewers/ surface water or ground water.

(Contd. on page 4)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

Trade name: SECURALLOY

(Contd. of page 3)

· 6.3 Methods and material for containment and cleaning up:

Absorb mercury spill with absorbent material (eg powder or flowers of sulfur amalgamantes base metals such as copper or tin, or molecular sieve of copper ions and silica gel) or by vacuum suction.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections :

See Section 7 for information on safe handling.

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 :**

Work in a cool and well ventilated. Avoid contact of product with skin and eyes. Do not inhale mercury.

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about fire - and explosion protection: Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities**· Storage:****· Requirements to be met by storerooms and receptacles:**

Store in original container in a dry, cool and well-ventilated place.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Keep container tightly sealed.

· 7.3 Specific end use(s) : No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see section 7.

· 8.1 Control parameters**· Ingredients with limit values that require monitoring at the workplace:****CAS: 7439-97-6 mercury (25-50%)**

WEL (Great Britain) Long-term value: 0.02 mg/m³
as Hg

IOELV (EU) Long-term value: 0.02 mg/m³
as Hg

MAK (Switzerland) Short-term value: 0.4 mg/m³, 0.04 ppm
Long-term value: 0.05 mg/m³, 0.005 ppm
S B; Dampf und Aerosol

CAS: 7440-22-4 silver (25-50%)

WEL (Great Britain) Long-term value: 0.1 mg/m³

IOELV (EU) Long-term value: 0.1 mg/m³

MAK (Switzerland) Short-term value: 0.8e mg/m³
Long-term value: 0.1e mg/m³

(Contd. on page 5)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

Trade name: SECURALLOY

(Contd. of page 4)

CAS: 7440-50-8 copper (5-10%)

WEL (Great Britain) Short-term value: 2** mg/m³
Long-term value: 0.2* I** mg/m³
*fume **dusts and mists (as Cu)

MAK (Switzerland) Short-term value: 0.2 e mg/m³
Long-term value: 0.1 e mg/m³
SSc;

· Ingredients with biological limit values:
CAS: 7439-97-6 mercury (25-50%)

BMGV (Great Britain) 20 µmol/mol creatinine
Medium: urine
Sampling time: random
Parameter: mercury

BAT (Switzerland) 25 µg/g Kreatinin
Medium: U
Sampling time: d
Parameter: anorganisches Quecksilber

15 µg/l
Medium: B
Sampling time: c,b
Parameter: anorganisches Quecksilber

· Additional information:

The most current valid lists have been used as a basis for the production of this document.

· 8.2 Exposure controls
· Personal protective equipment:
· General protective and hygienic measures:

Keep away from food, beverages and petfood.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.

· Respiratory protection: In case of low exposure or short-term use respiratory protection with filter Hg/P3.

· Protection of hands:


Protective gloves

· Gloves material :

The selection of suitable gloves does not depend only on the material, but also on further marks of quality which may vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked before use.

Nitrile rubber, NBR

· Eye protection:


Safety glasses with side shields.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

Trade name: SECURALLOY

· **Body protection:**

(Contd. of page 5)



Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Pasty
Colour:	Grey
Odour:	Odourless
Odour threshold:	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not determined.

· **Ignition temperature:** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not self igniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· **Vapour pressure:** Not applicable.

· **Density:** Not determined.

· **Relative density :** Not determined.

· **Vapour density :** Not applicable.

· **Evaporation rate :** Not applicable.

· **Solubility in / Miscibility with water:**

Insoluble.

· **Segregation coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic:	Not applicable.
Kinematic:	Not applicable.

· **Solvent content:**
VOC (EC) 0.00 %

(Contd. on page 7)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

Trade name: SECURALLOY

(Contd. of page 6)

· **9.2 Other information :** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions :** No dangerous reactions known.
- **10.4 Conditions to avoid :** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** In case of fire: Mercury vapors

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity**

Harmful if swallowed.

Fatal in contact with skin or if inhaled.

- **LD/LC50 values relevant for classification:**

CAS: 7439-97-6 mercury

Oral	LD50	6 mg/kg (mouse) 1 mg/kg (rat)
Dermal	LD50	41 mg/kg (rat)
Inhalative	LC50/4 h	0.05 mg/l (ATE)

CAS: 7440-50-8 copper

Oral	LD50	500 mg/kg (ATE)
------	------	-----------------

- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eyes:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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**
May damage the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**
Causes damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

CAS: 7440-22-4 silver

LC50 96h	0.0012 mg/l (fish)
----------	--------------------

(Contd. on page 8)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

Trade name: SECURALLOY

(Contd. of page 7)

NOEC	0.00031 mg/l (Crustaceans)
EC50 48h	0.00024 mg/l (Crustaceans)
EC50 96h	0.001628837 mg/l (Algae)

- **12.2 Persistence and degradability** : No further relevant information available.
- **12.3 Bioaccumulative potential** : No further relevant information available.
- **12.4 Mobility in soil** : No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** : No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation :**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Dispose of in accordance with regulations.

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN2809
· 14.2 UN proper shipping name	
· ADR	UN2809 MERCURY, ENVIRONMENTALLY HAZARDOUS
· IMDG	MERCURY, MARINE POLLUTANT
· IATA	MERCURY

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

Trade name: SECURALLOY

(Contd. of page 8)

· 14.3 Transport hazard class(es)

· ADR



· Class

8 (TC4) Corrosive substances.

· Label

8+6.1

· IMDG



· Class

8 Corrosive substances.

· Label

8/6.1

· IATA



· Class

8 Corrosive substances.

· Label

8 (6.1)

· 14.4 Packing group

· ADR, IMDG, IATA

I

· 14.5 Environmental hazards:

Product contains environmentally hazardous substances:
mercury, silver

· Marine pollutant:

No

· Special marking (ADR):

Symbol (fish and tree)

Symbol (fish and tree)

· 14.6 Special precautions for user

· Danger code (Kemler):

Warning: Corrosive substances.

668

· EMS Number:

F-A,S-B

· Segregation groups

Heavy metals and their salts (including their organometallic compounds), mercury and mercury compounds

· Stowage Category

B

· Stowage Code

SW2 Clear of living quarters.

· Segregation Code

SG24 Stow "away from" azides

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

0

· Excepted quantities (EQ)

Code: E5

Maximum net quantity per inner packaging: 1 g

Maximum net quantity per outer packaging: 300 g

(Contd. on page 10)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

Trade name: SECURALLOY

(Contd. of page 9)

· Transport category	1
· Tunnel restriction code	C/E
· IMDG	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E5 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 300 g
· UN "Model Regulation":	UN 2809 MERCURY, 8 (6.1), I, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**
H2 ACUTE TOXIC
E1 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 18a, 30
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning juveniles must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H330 Fatal if inhaled.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern

(Contd. on page 11)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 09.06.2017

Version number 2

Revision: 09.06.2017

Trade name: SECURALLOY

(Contd. of page 10)

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

GB