

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : STAPA 4 ZnSn15 Zinc Paste  
Material number : 032036K30

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

This information is not available.

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

Company : ECKART GmbH  
Guentersthal 4  
91235 Hartenstein  
Telephone : +499152770  
Telefax : +499152777008  
E-mail address : msds.eckart@altana.com  
Responsible/issuing person

**1.4 Emergency telephone number****NCEC:**

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

**SECTION 2: Hazards identification****GHS Classification**

: Short-term (acute) aquatic hazard, Category 1, H400  
Long-term (chronic) aquatic hazard, Category 1, H410

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

**GHS-Labelling**

Symbol(s)

:



Signal word

: Warning

Hazard statements

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

Precautionary statements

: **Prevention:**

P273 Avoid release to the environment.

**Response:**

P391 Collect spillage.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazardous components which must be listed on the label****SECTION 3: Composition/information on ingredients**

Substance name

: STAPA Zink 4 ZnSn15

Substance No.

:

**Hazardous components**

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
zinc powder — zinc dust (stabilised)	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	60 - 100

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48-9	Flam. Liq.;4;H227 Asp. Tox.;1;H304	5 - 10
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For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General advice : Move the victim to fresh air.  
Remove from exposure, lie down.  
No hazards which require special first aid measures.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.  
Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

This information is not available.

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

This information is not available.

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## STAPA 4 ZnSn15 Zinc Paste

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Dry sand, Special powder against metal fire

Unsuitable extinguishing media : Carbon dioxide (CO<sub>2</sub>), Water

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

Specific hazards during firefighting : Contact with water liberates extremely flammable gas (hydrogen).

Do not allow run-off from fire fighting to enter drains or water courses.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Avoid dust formation.

#### 6.2 Environmental precautions

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Use mechanical handling equipment.  
Pick up and transfer to properly labelled containers.  
Do not flush with water.  
Contain spillage, and then collect with non-combustible  
absorbent material, (e.g. sand, earth, diatomaceous earth,  
vermiculite) and place in container for disposal according to  
local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For personal protection see section 8.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Avoid creating dust. Routine housekeeping should be  
instituted to ensure that dusts do not accumulate on surfaces.

For personal protection see section 8. Smoking, eating and  
drinking should be prohibited in the application area. Dispose  
of rinse water in accordance with local and national  
regulations.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. No smoking.

Normal measures for preventive fire protection.

Hygiene measures : Wash hands before breaks and at the end of workday.

**7.2 Conditions for safe storage, including any incompatibilities**

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

- Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.
- Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : Protect from humidity and water.
- Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.
- Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

This information is not available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Germany:**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## STAPA 4 ZnSn15 Zinc Paste

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

Further information		Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
tin	7440-31-5	TWA	2 mg/m <sup>3</sup>	1991-07-05	91/322/EEC
Further information		Existing scientific data on health effects appear to be particularly limited Indicative			
tin	7440-31-5	TWA	2 mg/m <sup>3</sup>	1991-07-05	91/322/EEC
Further information		Indicative Existing scientific data on health effects appear to be particularly limited			

### United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (total dust)	15 mg/m <sup>3</sup>	2012-07-01	
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (respirable fraction)	5 mg/m <sup>3</sup>	2012-07-01	
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
zinc powder — zinc dust	7440-66-6	PEL (Total dust)	10 mg/m <sup>3</sup>	2014-11-26	

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## STAPA 4 ZnSn15 Zinc Paste

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

(stabilised) zinc powder — zinc dust (stabilised)	7440-66-6	PEL (respirable dust fraction)	5 mg/m <sup>3</sup>	2014-11-26	
tin	7440-31-5	TWA	2 mg/m <sup>3</sup>	2013-03-01	
tin	7440-31-5	TWA	2 mg/m <sup>3</sup>	1997-08-04	
tin	7440-31-5	TWA	2 mg/m <sup>3</sup>	1989-01-19	
tin	7440-31-5	TWA	2 mg/m <sup>3</sup>	2018-03-20	
tin	7440-31-5	TWA	2 mg/m <sup>3</sup>	1997-08-04	
tin	7440-31-5	TWA	2 mg/m <sup>3</sup>	1989-01-19	
tin	7440-31-5	PEL	2 mg/m <sup>3</sup>	2014-11-26	
tin	7440-31-5	TWA	2 mg/m <sup>3</sup>	2016-11-15	
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	64742-48-9	TWA	500 ppm 2 000 mg/m <sup>3</sup>	2007-01-01	
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	64742-48-9	TWA	400 ppm 1 600 mg/m <sup>3</sup>	1989-01-19	

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : Solvent-resistant gloves (butyl-rubber)



**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

- Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Recommended preventive skin protection  
Skin should be washed after contact.  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use suitable breathing protection if workplace concentration requires.  
In the case of dust or aerosol formation use respirator with an approved filter.

**Environmental exposure controls**

- General advice :  
: Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Water : Do not flush into surface water or sanitary sewer system.  
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Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance	: Pasty solid
Colour	: silver
Odour	: characteristic
pH	: No data available
Freezing point	: No data available
Boiling point/boiling range	: > 200 °C
Flash point	: No data available
Bulk density	: No data available
Flammability (solid, gas)	: The product is not flammable.
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

Viscosity, dynamic : No data available  
Viscosity, kinematic : No data available  
Flow time : No data available

**9.2 Other information**

Self-Accelerating decomposition temperature (SADT) : No data available  
Self-heating substances : No data available  
Heat of combustion : No data available  
Impact sensitivity : No data available  
Surface tension : No data available  
  
Conductivity : No data available  
Sublimation point : No data available  
Molecular weight : No data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

No decomposition if stored and applied as directed.

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

**10.4 Conditions to avoid**

Conditions to avoid : Do not allow evaporation to dryness.  
No data available

**10.5 Incompatible materials**

Materials to avoid : Acids  
Bases  
Oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products : No data available

Other information : No data available

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Components:****zinc powder — zinc dust (stabilised) :**

Acute oral toxicity : Rat: > 2 000 mg/kg

**Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha :**

Acute oral toxicity : LD50 Rat: > 5 000 mg/kg

Acute inhalation toxicity : LC50 Rat: Test atmosphere: vapour

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

concentration.

Acute dermal toxicity : LD50 Rabbit: > 5 000 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Carcinogenicity**

No data available

**Toxicity to reproduction/fertility**

No data available

**Reprod.Tox./Development/Teratogenicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

**Aspiration toxicity**

No data available

**Further information****Product**

No data available

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**SECTION 12: Ecological information****12.1 Toxicity****Components:****zinc (7440-66-6) :****Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects****Product:**Additional ecological  
information: An environmental hazard cannot be excluded in the event of  
unprofessional handling or disposal., Very toxic to aquatic life  
with long lasting effects.**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. In accordance with local and national regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. In accordance with local and national regulations.

**SECTION 14: Transport information****14.1 UN number****ADR** : 3077**TDG**

Not dangerous goods

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

**CFR**

Not dangerous goods

**IMDG** : 3077**IATA** : 3077**14.2 Proper shipping name**

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Zinc powder, stabilized )

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(,Zinc powder, stabilized )

**IATA** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Zinc powder, stabilized)

**14.3 Transport hazard class****ADR** : 9**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG** : 9**IATA** : 9**14.4 Packing group**



**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

**ADR**

Packaging group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Packaging group : III  
Labels : 9  
EmS Number : F-A, S-F

**IATA**

Packing instruction (cargo aircraft) : 956  
Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packaging group : III  
Labels : 9

**14.5 Environmental hazards**

**IMDG** : Marine pollutant

**ADR** : Environmentally hazardous

**14.6 Special precautions for user**

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## STAPA 4 ZnSn15 Zinc Paste

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

### IMDG Code- segregation group:

: IMDG Code segregation group 7 - Heavy metals and their salts

For single packagings ≤ 5L / 5 kg, or combination packagings containing inner packagings ≤ 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

### 15.2 Chemical safety assessment

No data available

## SECTION 16: Other information

### Full text of H-Statements

H227	: Combustible liquid.
H304	: May be fatal if swallowed and enters airways.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

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 a

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**STAPA 4 ZnSn15 Zinc Paste**

Version 1.3

Revision Date 06.12.2019

Print Date 02.12.2024

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