

## **Safety Data Sheet**

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier:

STEEL SHINE

1.2 Relevant identified uses of the substance or mixture and uses advised against: Product designed for nurturing elements made from stainless steel, non-ferrous metals and their alloys with shining and half-matt structure.

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

TENZI Sp. z o.o. Skarbimierzyce 20 72-002 Dołuje tel. +48 91 3119777 fax. +48 91 3119779 E-mail address for a competent person responsible for SDS: technolog@tenzi.pl

### **1.4 Emergency telephone number:**

+48 91 31 19 777 (mon. - fri. 8am - 4pm) or 112.

### **SECTION 2. HAZARDS IDENTIFICATION**

2.1.	Classification of the substance or mixture:
	Classification according to Regulation (EC) No. 1272/2008:Skin Irrit. 2 H315- Causes skin irritation.Eye Irrit. 2 H319- Causes serious eye irritation.
2.2.	Label elements: (According to 1272/2008/EC*)
	Hazard symbols:
	Signal words:
	WARNING
	Hazard statements:H315- Causes skin irritation.H319- Causes serious eye irritation.
	Precautionary statements: P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
2.3.	Other hazards: Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.



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	SECTION 3.	COMPOSITION / INFORMATION ON INGREDIENTS			
	3.1. Substances: Not applicable.				
•	3.2. Mixtures: Composition (according to: 648/2004/EC):				
<ul> <li>&lt; 5% anionic surfactants</li> <li>- aroma composition</li> <li>- auxiliary substances not classified as dangerous</li> <li>- phosphoric acid</li> </ul>					
	Identification	Hazardous ingredient/classification	Concentration		
CAS: WE:	231-633-2 ex: 015-011-00-6	Phosphoric acid (75%)			
Index: Registration:		Skin Corr. 1B H314, Met. Corr. 1 H290	< 5%		
CAS: WE:	85536-14-7 287-494-3	Anionic surfactants			
Index: Registration:	No data available	Skin Corr. 1C H314, Acute Tox. 4 H302	< 1%		
CAS: WE:	239-854-6 x: No data available	Sodium cumenesulphonate	< 0.5%		
Index: Registration:		Eye Irrit. 2 H319	< 0.5%		

The full texts of H symbols and phrases are in section 16.

### **SECTION 4. FIRST AID MEASURES**

### 4.1. Description of first aid measures:

### Inhalation:

In case of inhalation poisoning symptoms (cough, dyspnea, dizziness) move the injured to fresh air. Make sure to keep him calm and warm. Physical effort may cause pulmonary edema. Get medical attention.

### Skin contact:

If product comes in contact with the skin, immediately remove all contaminated clothing and flush exposed area with large amounts of water. In case of skin changes or burns, get medical attention.

### Eye contact:

Flush eyes with running water (at least 15 minutes) while keeping eyelids open. Get medical attention.

### Ingestion:

DO NOT induce vomiting. Give lots of water to drink. DO NOT give any neutralizing agents. Immediately get medical attention and show this SDS or label.

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

### Inhalation:

After long-time exposure without proper ventilation, it may cause irritation of the upper respiratory tract.



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Skin: Irritant to skin.

Eyes: Irritant to eyes.

Ingestion: May cause irritation of the mucous membranes.

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

Get medical attention. Fresh water and eye-wash preparations must be available on the worksite.

### SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media:

Suitable extinguishing media: Water, foam, extinguishing powder, carbon dioxide.

**Unsuitable extinguishing media:** Don't use water jet on liquid's surface.

**5.2.** Special hazards arising from the substance or mixture: Product is non-flammable.

### 5.3. Advice for firefighters:

Firefighters should wear self-contained breathing apparatus and full protective clothing. In case of fire, warn the people nearby and evacuate unprotected and untrained personnel from hazard area. Notify relevant emergency services. If possible, remove the containers away from the influence of fire and high temperature. Water may be used to keep fire-exposed containers cool until fire is out. The after burning residues should be removed

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Protective chemical-proof gloves (0.11 mm thick), safety glasses.

#### For emergency responders:

Protective clothes, protective chemical-proof gloves (0.11 mm), self-contained breathing apparatus, safety glasses. Avoid skin and eye contact. Provide proper ventilation.

### 6.2. Environmental precautions:

Avoid discharge into drains, watercourses or onto the ground at all costs.

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

In case of unexpected release of the substance into the environment, inform appropriate services about the emergency and remove any source of ignition. Prevent spills from entering sewers, surface water or groundwater. If it is possible, confine and contain the spill by closing the flow of the liquid, plug the damaged container and put it into leakproof wrapping. For a larger spill,



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make a dike around the outside edges of the spill and use absorbent materials (sand, sawdust, minced limestone). Store clean-up materials for disposal as hazardous waste. Decontaminate polluted area with water.

### 6.4. Reference to other sections:

See section 8 and 13.

### **SECTION 7. HANDLING AND STORAGE**

### 7.1. Precautions for safe handling:

Be careful when working with this product. Use personal protection recommended in section 8 Mix only with water. DO NOT mix with any other chemical substances. People with skin allergy or respiratory system problems should not have contact with this product. Avoid risk – read this instruction sheet carefully before using the product. After usage, keep container tightly closed and keep it away from unauthorized people. Use only adequate ventilation to avoid inhalation poisoning.

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

Store in a tightly closed, original plastic container. Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor. DO NOT expose the product to sunlight and keep away from heat, sparks, flame and source of ignition.

7.3. Specific end use(s):

No data available.

### SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### 8.1. Control parameters:

Please check any national occupational exposure limit values in your country.

### NDS/NDSCh/NDSP values for individual chemical substances (according to SDS or Chemical Safety Report):

### Phosphoric acid (data for highly concentrated substance):

NDS:	1 mg/m <sup>3</sup>
NDSCh:	2 mg/m <sup>3</sup>
NDSP:	not identified.

Anionic surfactants (data for highly concentrated substance): NDS, NDSCh, NDSP: not identified.

Sodium cumenesulphonate (data for highly concentrated substance): NDS, NDSCh, NDSP: not identified

DNEL /PNEC values for individual chemical substances (according to SDS or Chemical Safety Report):



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Phosphoric acid (data for highly concentrated substance): No data available.

### Anionic surfactants (data for highly concentrated substance):

#### DNEL:

Group: workers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect, Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect, Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, group: consumers, Exposure time: long-term, Exposure route: long-term, Exposure time: long-term, Exposure t

Value: 12 mg/m<sup>3</sup> Value: 12 mg/m<sup>3</sup> Value: 85 mg/kg Value: 3 mg/m<sup>3</sup> Value: 3 mg/m<sup>3</sup> Value: 0.85 mg/kg

Value: 170 mg/kg

### PNEC:

Aqua (fresh water):	0.287 mg/l
Aqua (marine water):	0.0287 mg/l
Sediment (fresh water):	0.287 mg/kg
Sediment (marine water):	0.287 mg/kg
Sewage treatment plant:	3.43 mg/l
Intermittent release:	0.0167 mg/l
Soil:	35 mg/kg

#### Sodium cumenesulphonate (data for highly concentrated substance):

#### DNEL:

Group: workers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect, Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect, Group: consumers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect, Group: consumers, Exposure time: long-term, Exposure route: infalation, Type of effect: systemic effect, Group: consumers, Exposure time: long-term, Exposure route: infalation, Type of effect: systemic effect, Value: 7.6 mg/kg Value: 53.6 mg/m<sup>3</sup> Value: 3.8 mg/kg Value: 13.2 mg/m<sup>3</sup> Value: 3.8 mg/kg

#### PNEC:

Aqua (fresh water):0.23 mg/lSewage treatment plant:100 mg/lIntermittent release:2.3 mg/l

**NOTE:** When the concentration of substance is known, personal protective equipment should be chosen based on substance concentration in a workplace, exposure time and operations performed by the employee. In emergency situations, if substance concentration in the workplace is unknown, personal protection of highest class level should be used.

#### 8.2. Exposure controls:

**RESPIRATORY PROTECTION:** Not needed.

HAND PROTECTION: Protective acidic-proof gloves (0.11 mm thick).

**EYE/FACE PROTECTION:** Not needed.

SKIN PROTECTION: Not needed.



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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES** 

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

Appearance:	Turbid liquid.
Odour:	Characteristic for aroma composition used in production
Odour threshold:	No data available
pH:	1 ± 1
Melting point:	No data available
Freezing point:	No data available
Initial boiling point:	No data available
Boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Upper explosive limit:	No data available
Lower explosive limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.039 ± 0.020 g/cm <sup>3</sup>
Solubility:	
A) Water:	soluble
B) Organic solvent:	No data available
Partition coefficient N-Octan:	No data available
Partition coefficient Water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

## 9.2. Other information:

**Refractive index:** 11% Brix<sup>\*</sup> ± 5%

<sup>\*</sup> - Degrees Brix is the content of an aqueous solution. One degree Brix is 1 gram of sucrose in 100 grams of solution and represents the strength of the solution as percentage by weight (%w/w).

### SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:

No data available.

### 10.2 Chemical stability:

Stable under recommended storage conditions (see section 7).

### 10.3 Possibility of hazardous reactions:

May violently react with alkali (releases warmth).

### 10.4 Conditions to avoid:

Avoid heavily warmed rooms without ventilation and long-term exposure to sunlight.



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**10.5 Incompatible materials:** Alkali, chlorine preparations.

#### **10.6 Hazardous decomposition products:** No data available.

### SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

ACUTE TOXICITY:Inhalation:in case of long-term exposure without proper ventilation, it may cause irritation of the upper respiratory tract.Skin contact:causes skin irritation.Eye contact:causes eye irritation.Digestive system:may cause irritation of the mucous membranes.

### DETAILS OF PARTICULAR COMPONENTS (according to substances SDS):

### Phosphoric acid (data for highly concentrated substance):

LD50:	1530 mg/kg	(rat, orally)
LD50:	2740 mg/kg	(rabbit, dermal)

Very corrosive to skin. Destroys skin tissues and makes burns. Corrosive to eyes. May cause irreversible eye damage. One-time exposure: ingestion causes irritation of the upper respiratory tract. Recurring exposure: dermatitis and acute respiratory infection.

### Anionic surfactants (data for highly concentrated substance):

LD50:	1470 mg/kg	(rat, orally)
LD50:	2000 mg/kg	(rat, dermal)

Slight skin irritation. Serious eye irritation. No allergic effects. Negative Ames test.

#### Sodium cumenesulphonate (data for highly concentrated substance):

 LD50:
 >7000 mg/kg
 (rat, orally)

 LD50:
 >2000 mg/kg
 (rabbit, dermal)

Doesn't irritate the skin. p-cumenesulphonate sodium slightly irritates skin (rabbit, OECD 404). Seriously damage eyes. p-cumenesulphonate sodium irritates eyes (rabbit, OECD 405). No allergic effects (guinea pig, OECD 406). No mutagenic effects. No carcinogenic effects (rat, OECD 453)



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Reproduct NOAEL: No problem	ive toxicity: > 936 mg/kg is detected.	(rat, orally)		
<b>Teratogeni</b> NOAEL: No problem	> 936 mg/kg	(rat)		
Chronic to NOAEL: NOAEL:	<b>xicity:</b> > 440 mg/kg 763-3534 mg/kg	(dermal) (orally)	(OECD 411) (OECD 408)	

		SECTION 12. ECOL	OGICAL INFORMATION	
2.1. Toxicity:		· · · · · ·		
Data for t	he mixture ingred	lients:		
Phospho	ric acid (data for h	highly concentrated substance	e):	
LC50: LC50: EC50:	138 mg/l/96h 3-3.25 mg/l/96 > 100 mg/l/48ł			
Harmful to	aqua organisms.			
Anionic s	urfactants (data f	or highly concentrated substa	nce):	
LC50: EC: EC50:	1-10 mg/l/96h 1-10 mg/l/48h 1-10 mg/l	(fish) (daphnia) (algae)		
Sodium cumenesulphonate (data for highly concentrated substance):				
EC50:       > 1000 mg/l/48h       (daphnia)       (EPA OPPTS EPA OTS 797.1300)         EbC50:       > 230 mg/l/96h       (algae)       (EPA OPPTS EPA OTS 797.1050)         NOEC:       31 mg/l/96h       (algae)       (EPA OPPTS)         ErC50:       > 1000 mg/l/3h       (bacteria)       (OECD 209/active sediment)         LC50:       > 1000 mg/l/96h       (fish)       (EPA OPPTS EPA OTS 797.1400)		.1050) )		
The surfac 648/2004	on detergents.	thin the product comply with the	biodegradability criteria as laid dow	n in Regulation (EC) No
	he mixture ingred			
Subs	tance	Method	Length	Degraded percentage
Phosph	oric acid	Inorganic substance	Inorganic substance	Inorganic substance
Anionic s	urfactants	OECD 301 B	28 days	> 60%
Sodium cumenesulphonate 0			1	1



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### 12.3. Bioaccumulative potential:

Bioaccumulation is incredible. Data based on mixture ingredients.

#### 12.4. Mobility in soil

The product is water soluble and may sink into groundwater systems.

### 12.5. Results of PBT and vPvB assessment:

This substance/mixture does not meet the PBT and vPvB criteria of REACH, annex XIII..

### 12.6. Other adverse effects:

No data available.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **RESIDUES AND WASTES:**

DO NOT mix with other liquid wastes.

DO NOT empty into sewage system. Product should be totally used up according to its description.

If it's impossible to do so, dispose of this material and its container at hazardous or special waste collection point.

#### 13.1. Waste treatment methods:

Contaminated containers should be completely emptied. Several times rinse the container promptly after emptying. Empty container can be stored in containers for collection of plastic packaging, or can be delivered to specialized company for recycling.

Disposal should be in accordance with the national/international regulations.

### **SECTION 14. TRANSPORT INFORMATION**

### **TRADE NAME: STEEL SHINE**

14.1. UN Number:

- 14.2. UN proper shipping name:
- 14.3. Transport hazard class(es):
- 14.4. Packing group:

14.5. Environmental hazards:

14.6. Special precautions for user:

Not applicable. Not applicable. Not applicable. Not applicable. No.

For more details see Sections 6 and 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No data available.

WARNING LABELS not applicable



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### **SECTION 15. REGULATORY INFORMATION**

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

1) COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

2) REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.

3) COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto.
4) REGULATION (EC) No 1336/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008

4) REGULATION (EC) No 1336/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 amending Regulation (EC) No 648/2004 in order to adapt it to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

5) COMMISSION REGULATION (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation).

6) REGULATION (EU) No 259/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 14 March 2012 amending Regulation (EC) No 648/2004 as regards the use of phosphates and other phosphorus compounds in consumer laundry detergents and consumer automatic dishwasher detergents.

7) REGULATION (EC) No 273/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 February 2004 on drug precursors).

8) 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.

### 15.2. Chemical safety assessment

### For mixture:

A Chemical Safety Assessment has not been carried out.

### For following mixture substances:

Phosphoric acid:A Chemical Safety Assessment has been carried out.Anionic surfactants:A Chemical Safety Assessment has not been carried out.Sodium cumenesulphonate:A Chemical Safety Assessment has been carried out.

### SECTION 16. OTHER INFORMATION

Information above is based on current knowledge of product in its current form.

All data are presented in order to take into account safety requirements priority and not to guarantee special properties of the product. If product usage conditions are not under manufacturer control, responsibility for safe use lies with the person that uses them. The employer is obliged to inform all employees, who have contact with the product, about the risk and safety measures specified in the data sheet. Safety data presented above were prepared based on safety characteristics of substances used by the producer to compose the product and based on regulations for handling dangerous substances and their preparation. Classification of chemical mixture was done with calculation methods, based on the content of hazardous ingredients.

### The full list of symbols and H phrases from Section 2 and 3:

Eye Irrit. 2 Skin Irrit. 2 Skin Corr. 1B Skin Corr. 1C Met.Corr 1 Acute Tox. 4	<ul> <li>Causes serious eye irritation, category 2.</li> <li>Causes skin irritation, category 2.</li> <li>Corrosive to skin, category 1B</li> <li>Corrosive to skin, category 1C</li> <li>Substance/Mixture is corrosive to metals, category 1</li> <li>Acute toxicity, category 4.</li> </ul>
H290 H302 H314	<ul> <li>May be corrosive to metals.</li> <li>Harmful if swallowed.</li> <li>Causes severe skin burns and eye damage.</li> </ul>



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More information on the product can be found on the specific technical data sheet which is available on www.tenzi.pl

H315 H319 Causes skin irritation.Causes serious eye irritation.

### Training:

Course participants should be trained about how to handle this hazardous substance, about safety and work hygiene. Drivers should also be trained and obtain proper certification in accordance with the ADR requirements.

### Expiry date:

36 months from the production date (if product is stored according to the producent recommendations)

### Changes compared to the previous version:

- section 6 and 8 (gloves thickness)

Updated cards versions are now available on www.tenzi.pl

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