

# SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council

Date of compilation: 09. 11. 2019 Product code: AM7506

Revision: - - -

Replaced version: - - -

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Trade Name: **TITANIUM SILVER**

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

### 1.1 Product identifier:

Trade Name:

**TITANIUM SILVER**

Mixture description:

Solvent coating (aerosol).

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

Identified uses:

Paint, surface treatment.

Uses advised against:

Recommended for identified uses.

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

**GOX7-EUROPE s.r.o.**

Chlumčanská 396

439 02 Cítoliby

Czech republic

Tel.: +420 777 691 661

competent person responsible for MSDS: info@gox7.cz

### 1.4 Emergency telephone number:

112 (General emergency phone).

## SECTION 2: Hazards identification

The mixture is classified as dangerous as follows:

### 2.1 Classification of the mixture:

according to 1272/2008/EC

**Aerosol 1; H222, H229**

**Eye Irrit. 2; H319**

**STOT SE 3; H336**

**Skin Irrit. 2; H315**

Full text of H-phrases: see section 16.

### **The most important adverse physicochemical, human health and environmental effects:**

Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

### 2.2 Label elements:

hazard pictograms



signal word

Danger.

ingredients of the mixture to be labeled

Contains acetone, 2-butoxyethanol, butyl-acetate, ethyl-acetate.

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<i>hazard statements</i>	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H315 Causes skin irritation.
<i>precautionary statements</i>	P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P403 Store in a well-ventilated place. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P280 Wear protective gloves/protective clothing/eye protection. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501 Dispose of contents/container at the site of hazardous waste collection in the village.
<i>supplemental hazard information</i>	EUH066 Repeated exposure may cause skin dryness or cracking. VOC: 92%

### 2.3 Other hazards:

The mixture meets not the criteria for PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### 3.2.1 Substances presenting a health or environmental hazard in the mixture

<i>Chemical identity</i>	<i>CAS</i>	<i>EC-No. Registration No.</i>	<i>Content (**) (wt. %)</i>	<i>Classification 1272/2008/EC</i>
acetone	67-64-1	200-662-2 01- 2119471330-49	approx 35	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066
petroleum gases, liquefied (LPG) *)	68476-85-7	270-704-2 01- 2119485911-31	approx 25	Flam. Gas 1; H220 Press. Gas (Liq.); H280
ethyl-acetate	141-78-6	205-500-4 01- 2119475103-46	approx 8	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066

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<i>n</i> -butyl-acetate	123-86-4	204-658-1 01- 2119485493-29	approx 8	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066
2-butoxyethanol; ethylene glycol monobutyl ether	111-76-2	203-905-0 01- 2119475108-36	5.9	Acute Tox. 4; H302+H312+H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315
2-methoxy-1- methylethyl acetate	108-65-6	203-603-9 01- 2119475791-29	5 - 6	Flam. Liq. 3; H226
2-butanone; ethyl methyl ketone	78-93-3	201-159-0 01- 2119457290-43	2 - 3	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066
aluminium powder	7429-90-5	231-072-3 01- 2119529243-45	< 2	Flam. Sol. 1; H228 Water-react. 2; H261
<i>n</i> -butanol	71-36-3	200-751-6 01- 2119484630-38	1.77	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 STOT SE 3; H336
diacetonolcohol	123-42-2	204-626-7 01- 2119473975-21	< 1	Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H335
ethanol	64-17-5	200-578-6 01- 2119457610-43	< 1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 (C ≥ 50 %)
nitrocellulose (N<12,6 %)	9004-70-0	not available not available	< 1	Expl. 1.1; H201
propan-2-ol; iso-propanol	67-63-0	200-661-7 01-2119457558	0,5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
2-methylpropan-1-ol iso-butanol	78-83-1	201-148-0 01- 2119484609-23	< 0,2	Flam. Liq. 3; H226 STOT SE 3; H336 STOT SE 3; H335 Eye Dam. 1; H318 Skin Irrit. 2; H315

Contains less than 0.1% of 1,3-butadiene (\*)); \*\*) see section 16 classification procedure.

### **3.1.2 Impurities, stabilising aditives, constituents other than the main constituent**

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<b>Chemical identity</b>	<b>CAS</b>	<b>EC-No. Registration No.</b>	<b>Content (wt. %)</b>	<b>Classification 1272/2008/EC</b>
acrylic resin	113041-34-2	- - - not available	< 5	not classified
carbon black	1333-86-4	215-609-9 01- 2119384822-32	< 1	not classified

### SECTION 4: First aid measures

Keep the person at physical and mental rest and warm. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

#### 4.1 Description of first aid measures:

##### **Inhalation:**

Move person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention. Place unconscious person on the side in the recovery position and ensure breathing can take place.

##### **Skin contact:**

Remove contaminated clothing immediately and wash skin with soap and water. Do not use solvents or thinners.

##### **Eye contact:**

Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes ( least 15 minutes). Get medical attention.

##### **Ingestion:**

Unlikely (aerosol). If this nevertheless happens, rinse out mouth with clean water. Do not induce vomiting. Get medical attention immediately. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

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

Overexposure may result in light headedness, staggering gait, dizziness, and possible nausea. May cause severe eye irritation. May cause skin irritation. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible contact dermatitis. Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system.

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

Treat symptomatically and supportively.

### SECTION 5: Firefighting measures

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### **5.1 Extinguishing media:**

#### ***Suitable extinguishing media:***

Use water fog, dry chemical, carbon dioxide or foam.

#### ***Extinguishing media which shall not be used for safety reasons:***

Solid streams of water may be ineffective. Burning product will float on the surface and spread fire.

### **5.2 Special hazards arising from the substance:**

Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapours are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons.

### **5.3 Advice for fire-fighters:**

In the event of fire, wear self-contained breathing apparatus and clothing protective against chemicals. Keep extinguishing aerosols away from the danger area, if possible without risk.

## **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Use non-sparking tools, avoid electrostatic charge. Other protective measures - see section 7.

### **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow to enter waters or soil. Report spills to authorities as required.

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

Aerosol, mainly local air pollution will occur. If, however, a liquid fraction is leaking, absorb spillage using an absorbent, such as earth, sand or vermiculite. Place in container for disposal according to local regulations (see section 13). Pump off larger quantities. Use non-sparking tools. Afterwards ventilate area and wash spill site.

### **6.4 Reference to other sections:**

Protective equipment: see section 8. Dispose according to the section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling:**

Provision of very good ventilation in the working area. Vapour/air mixtures are heavier than air. Adequate ventilation at the floor area must be ensured as well. Eye bath required. These locations must be signposted clearly. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. Keep containers tightly sealed. Prevent formation of aerosols. Do not use any tools that cause sparks.

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When using, do not eat, drink or smoke. Wash hands with warm water and soap before breaks and after work.

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

Store in original tightly closed packing in dry and well-ventilated areas. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 5 - 30 °C. Keep away from direct sunlight.

### **7.3 Specific end use(s):**

In household and industry.

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **8.1.1 Exposure limit value in UK:**

<u>LPG:</u>	<u>acetone:</u>	
8 h: 1800 mg/m <sup>3</sup> short: 4000 mg/m <sup>3</sup>	8 h: 1210 mg/m <sup>3</sup> short: 3620 mg/m <sup>3</sup>	
<u>n-butyl-acetate:</u>	<u>ethyl-acetate:</u>	
8 h: 724 mg/m <sup>3</sup> , short: 966 mg/m <sup>3</sup>	8 h: 730 mg/m <sup>3</sup> short: 1460 mg/m <sup>3</sup>	
<u>2-butoxyethanol:</u>	<u>diacetone alcohol:</u>	
8 h: 123 mg/m <sup>3</sup> , short: 246 mg/m <sup>3</sup>	8 h: 241 mg/m <sup>3</sup> , short: 362 mg/m <sup>3</sup>	
<u>2-butanon:</u>	<u>n-butanol:</u>	
8 h: 600 mg/m <sup>3</sup> short: 899 mg/m <sup>3</sup>	short: 154 mg/m <sup>3</sup>	
<u>ethanol:</u>	<u>2-methoxy-1-methylethyl acetate:</u>	
8 h: 1920 mg/m <sup>3</sup>	8 h: 274 mg/m <sup>3</sup> , short: 548 mg/m <sup>3</sup>	
<u>aluminium, metal:</u>	<u>iso-propanol:</u>	
8 h: 10 mg/m <sup>3</sup>	8 h: 999 mg/m <sup>3</sup> , short: 1250 mg/m <sup>3</sup>	
<u>carbon black:</u>		
8 h: 3.5 mg/m <sup>3</sup> , short: 7 mg/m <sup>3</sup>		

#### **8.1.2 DNEL:**

DNEL, PNEC are not available.

### **8.2 Exposure controls**

#### **8.2.1 Exposure reduction (technical measures):**

Where exposure cannot be prevented by other means the use of individual protection measures, such as personal protection equipment is necessary. Ensure adequate ventilation of the workplace. Regularly measure the concentration of this agent in the workplace atmosphere.

#### **8.2.2 Individual protection measures, such as personal protective equipment:**

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Workers in the risky process/areas identified should be trained.

*Respiratory protection:*

Required when vapours/aerosols are generated

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(recommended filter type A) and where risk assessment shows air-purifying respirators are appropriate use.

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*Hand protection:*

Handle with gloves, e.g. nitril-rubber, strength > 0.55 mm, penetration time > 480 min.; leather is not suitable.

*Eye/face protection:*

chemical safety goggles

*Skin protection:*

suitable protective clothing

### 8.2.3 Environmental exposure reduction:

Uncontrolled escape of substance/formulation into environment is to be avoided.

## SECTION 9: Physical and chemical properties

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

**Appearance** (at 20 °C):

aerosol

**Colour:**

silver

**Odour:**

characteristic

**Odour threshold:**

not available

**pH** (at 20 °C):

not available

**Melting point/freezing point:**

not available

**Boiling point** (range):

not available

**Flash point:**

< -18 °C (propellant gas)

**Evaporation rate:**

not available

**Flammability:**

flammable mixture

**Explosive limits** lower: (% vol.)

1,8 (propellant gas)

upper: (% vol.)

12,8 (propellant gas)

**Vapour pressure:** (20 °C)

not available

**Vapour density:**

not available

**Relative density:**

not available

**Solubility in water** ( 20 °C ) :

not available

**Partition coefficient:**

not available

**n-octanol/water:**

**Auto-ignition temperature:**

not available

**Decomposition temperature:**

not available

**Viscosity:**

not available

**Explosive properties:**

non-explosive

**Oxidising properties:**

none

### 9.2 Other information

not known

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Low reactivity.

### 10.2 Chemical stability:

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions:

Not known.



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### 10.4 Conditions to avoid:

Heat, flames and sparks. Protect from higher temperatures (over 50 ° C) and direct sunlight, risk of aerosol packaging explosion. Do not use in the presence of a source of ignition.

### 10.5 Incompatible materials:

Strong oxidizing agents.

### 10.6 Hazardous decomposition products:

Carbon oxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### Acute toxicity:

- $LD_{50}$ oral, rat ( $mg.kg^{-1}$ ):	ATE <sub>mixture</sub> > 2000 (for ingredients with $LD_{50}$ > 2000 but classified with H302, ATE is used according to tab. 3.1.2 CLP)
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- $LD_{50}$ skin, rat or rabbit ( $mg.kg^{-1}$ ):	ATE <sub>mixture</sub> > 2000 (for ingredients with $LD_{50}$ > 2000 but classified with H312, ATE is used according to tab. 3.1.2 CLP)
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- $LC_{50}$ inhalation, rat, gas or vapour ( $mg.l$ ):	ATE <sub>mixture</sub> > 20 (for ingredients with $LD_{50}$ > 20 but classified with H332, ATE is used according to tab. 3.1.2 CLP)
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<b>Skin corrosion/irritation:</b>	irritant, cat. 2
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<b>Serious eye damage/irritation:</b>	irritant, cat. 2
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<b>Respiratory or skin sensitisation:</b>	no
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<b>Germ cell mutagenicity:</b>	no
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<b>Carcinogenicity:</b>	no
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<b>Reproductive toxicity:</b>	no
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<b>STOT-single exposure:</b>	may cause drowsiness or dizziness
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<b>STOT-repeated exposure:</b>	may cause skin dryness and cracking
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<b>Aspiration hazard:</b>	no
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#### Additional information:

not known

## SECTION 12: Ecological information

### 12.1 Toxicity:

- $LC_{50}$ 96 H, fish ( $mg.l^{-1}$ ):	no data available
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- $EC_{50}$ 24 H, daphnia ( $mg.l^{-1}$ ):	no data available
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- $IC_{50}$ 72 H, algae ( $mg.l^{-1}$ ):	no data available
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<b>12.2 Persistence and degradability:</b>	no data available
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<b>12.3 Bioaccumulative potential:</b>	no data available
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<b>12.4 Mobility in soil:</b>	no data available
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### **12.5 Results of PBT and vPvB assessment:**

product is neither a PBT nor a vPvB substance

### **12.6 Other adverse effects:**

no data available

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods:**

#### ***Disposal methods of the substance and the contaminated packaging:***

Fully use the aerosol. Do not take the unused product into the collection or other disposal. Do not throw into the fire! Dispose of the packaging after full emptying. Never remove it by draining into drains! The waste producer is responsible for sorting waste and disposing of. Potential EU waste-code 08 01 11 for container, 15 01 10 for mixture.

#### ***Physical/chemical properties that may affect waste treatment options:***

Extremely flammable.

#### ***Union provisions relating to waste:***

- directive 2008/98/EC

## **SECTION 14: Transport Information**

**14.1 UN number:** 1950

### **14.2 UN proper shipping name:**

- ADR/RID/IMDG/IATA

AEROSOLS, flammable

**14.3 Transport hazard class(es):**

2

**14.4 Packing group:**

-

**14.5 Environmental hazards:**

no

**14.6 Special precautions for user:**

none

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:**

not available

### **ADR/RID:**

- classification code

5F

- labels

2.1

- hazard identification code

-

- tunnel restriction code

D

### **IMDG:**

- EmS

F-D, S-U

## **SECTION 15: Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the mixture:**

Regulation No. 1907/2006/ES, REACH.

Regulation No. 1272/2008/ES, CLP.

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### 15.2 Chemical safety assessment:

No data available.

### SECTION 16: Other information

#### **Reason for alteration:**

First edition.

#### **Key or legend to abbreviations and acronyms used in the safety data sheet:**

Flam Gas 1	flammable gas, cat. 1
Press. Gas (liq.)	gas under pressure (liquefied)
Flam. Liq. 3	flammable liquid, cat. 3
Flam. Liq. 2	flammable liquid, cat. 2
Flam Sol. 1	flammable solid, cat. 1
Water-react. 2	substance or mixture which in contact with water emit flammable
gases, cat. 1	
Aerosol 1	highly flammable aerosol
STOT SE 3	specific target organ toxicity after single exposure, cat. 3
Skin Irrit. 2	irritating for skin, kat. 2
Eye Irrit. 2	irritating for eyes, kat. 2
Acute Tox. 4	acute toxicity, cat. 4
Eye Dam. 1	eye damage, cat. 1
Expl. 1.1	explosive, div. 1.1
NOEC	No Observed Effect Concentration
PBT	Persistent, bioaccumulative, toxic chemical
vPvB	Very Persistent and Very Bioaccumulative chemical
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
CLP	regulation No. 1272/2008/EC
REACH	regulation No. 1907/2006/EC
bw	body weight

#### **Sources of key data used to compile the Safety Data Sheet:**

Chemical databases and tables, tests.

#### **List of H-phrases:**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H226	Flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H220	Extremely flammable gas.
H228	Flammable solid.
H261	In contact with water releases flammable gases
H336	May cause drowsiness or dizziness.

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H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H302	Harmful if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled
H332	Harmful if inhaled.
H318	Causes serious eye damage.
H201	Explosive; mass explosion hazard
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and
other ignition	sources. No smoking.
P403	Store in a well-ventilated place.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/protective clothing/eye protection.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding
50 °C.	
P501	Dispose of contents/container at the site of hazardous waste
collection in the	village.

### ***Training advice:***

According to MSDS.

### ***Relevant information for classification:***

According to additional method of CLP. For classification, concentrations stated in Section 3 were recalculated according to clause 1.1.3.7 of Annex I to CLP.