

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

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

Trade name : METALSTAR 06 7000 Silver  
Material number : 051755RC0

**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 :  
  
Telephone :  
Telefax :  
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**

: Skin corrosion/irritation, Category 3, H316

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

## METALSTAR 06 7000 Silver

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

### GHS-Labeling

Signal word : Warning

Hazard statements : H316: Causes mild skin irritation.

Precautionary statements : **Response:**  
P332 + P313 If skin irritation occurs: Get medical advice/  
attention.

### Hazardous components which must be listed on the label

## SECTION 3: Composition/information on ingredients

Substance name : mstar 06 7000 silber

Substance No. :

### Hazardous components

| Chemical name   | CAS-No.<br>EINECS-No.   | Classification and labelling | Concentration[%] |
|---|-------------------------|------------------------------|------------------|
| Distillates (petroleum), solvent-refined middle; Gasoil — unspecified | 64741-91-9              | Asp. Tox.;1;H304             | 25 - 50          |
| aluminium powder (stabilised)   | 7429-90-5<br>231-072-3  | Flam. Sol.;1;H228            | 10 - 20          |
| Octadecanoic acid, 12-hydroxy-,homopolymer,octadecanoate              | Not Assigned            | Skin Irrit.;2;H315           | 1 - 10           |
| manganese neodecanoate  | 27253-32-3<br>248-374-6 | Acute Tox.;4;H302<br>;2;H315 | 1 - 10           |

For the full text of the H-Statements mentioned in this Section, see Section 16.

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

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

- General advice : Move the victim to fresh air.  
Do not leave the victim unattended.
- 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.
- If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
- 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**

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

This information is not available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Dry sand, ABC powder, Foam

Unsuitable extinguishing media : High volume water jet

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

This information is not available.

**5.3 Advice for firefighters**

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

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**Personal precautions : Evacuate personnel to safe areas.  
Use personal protective equipment.**6.2 Environmental precautions**

Environmental precautions : Prevent further leakage or spillage if safe to do so.

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

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

Methods for cleaning up : Use mechanical handling equipment.  
Soak up with inert absorbent material (e.g. sand, silica gel,  
acid binder, universal binder, sawdust).

Wipe up with absorbent material (e.g. cloth, fleece).  
Do not flush with water.  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For personal protection see section 8.

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

Advice on safe handling : Avoid contact with skin and eyes. 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 : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

with the technological safety standards.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

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**

|   |   |                          |                        |            |             |
|---|---|--------------------------|------------------------|------------|-------------|
| aluminium powder (stabilised)           | 7429-90-5   | AGW (Inhalable fraction) | 10 mg/m <sup>3</sup>   | 2014-04-02 | DE TRGS 900 |
| Peak-limit: excursion factor (category) | 2;(II)  |                          |                        |            |             |
| Further information                     | Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission). |                          |                        |            |             |
| aluminium powder (stabilised)           | 7429-90-5   | 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 substancesSenate commission for the review of compounds at the work place dangerous for the health                   |                          |                        |            |             |

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

## METALSTAR 06 7000 Silver

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

(MAK-commission).

### United States of America (USA):

| Components                    | CAS-No.   | Value type<br>(Form of exposure) | Control parameters                  | Update     | Basis |
|-------------------------------|-----------|----------------------------------|-------------------------------------|------------|-------|
| aluminium powder (stabilised) | 7429-90-5 | TWA (total dust)                 | 50 Million particles per cubic foot | 2012-07-01 |       |
| aluminium powder (stabilised) | 7429-90-5 | TWA (Respirable)                 | 5 mg/m <sup>3</sup>                 | 2013-10-08 |       |
| aluminium powder (stabilised) | 7429-90-5 | TWA (total dust)                 | 15 mg/m <sup>3</sup>                | 2012-07-01 |       |
| aluminium powder (stabilised) | 7429-90-5 | TWA (total)                      | 10 mg/m <sup>3</sup>                | 2013-10-08 |       |
| aluminium powder (stabilised) | 7429-90-5 | TWA (respirable fraction)        | 5 mg/m <sup>3</sup>                 | 2012-07-01 |       |
| aluminium powder (stabilised) | 7429-90-5 | TWA (respirable fraction)        | 15 Million particles per cubic foot | 2012-07-01 |       |
| aluminium powder (stabilised) | 7429-90-5 | PEL (Total dust)                 | 10 mg/m <sup>3</sup>                | 2014-11-26 |       |
| aluminium powder (stabilised) | 7429-90-5 | PEL (respirable dust fraction)   | 5 mg/m <sup>3</sup>                 | 2014-11-26 |       |
| aluminium powder (stabilised) | 7429-90-5 | TWA (Respirable fraction)        | 1 mg/m <sup>3</sup>                 | 2008-01-01 |       |
| aluminium powder (stabilised) | 7429-90-5 | TWA                              | 5 mg/m <sup>3</sup>                 | 2005-09-01 |       |
| aluminium powder              | 7429-90-5 | TWA (Total)                      | 15 mg/m <sup>3</sup>                | 1989-01-19 |       |

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

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

|                               |           |                                |          |            |  |
|-------------------------------|-----------|--------------------------------|----------|------------|--|
| (stabilised)                  |           |                                |          |            |  |
| aluminium powder (stabilised) | 7429-90-5 | TWA (Respirable fraction)      | 5 mg/m3  | 1989-01-19 |  |
| aluminium powder (stabilised) | 7429-90-5 | TWA (total dust)               | 15 mg/m3 | 2011-07-01 |  |
| aluminium powder (stabilised) | 7429-90-5 | TWA (respirable fraction)      | 5 mg/m3  | 2011-07-01 |  |
| aluminium powder (stabilised) | 7429-90-5 | TWA (Total dust)               | 15 mg/m3 | 1989-01-19 |  |
| aluminium powder (stabilised) | 7429-90-5 | TWA (respirable dust fraction) | 5 mg/m3  | 1989-01-19 |  |
| aluminium powder (stabilised) | 7429-90-5 | TWA (welding fumes)            | 5 mg/m3  | 2013-10-08 |  |
| aluminium powder (stabilised) | 7429-90-5 | TWA (pyro powders)             | 5 mg/m3  | 2013-10-08 |  |
| aluminium powder (stabilised) | 7429-90-5 | TWA (Respirable fraction)      | 1 mg/m3  | 2013-03-01 |  |
| aluminium powder (stabilised) | 7429-90-5 | TWA (Fumes)                    | 5 mg/m3  | 1989-01-19 |  |
| aluminium powder (stabilised) | 7429-90-5 | PEL (Welding fumes)            | 5 mg/m3  | 2017-10-02 |  |
| aluminium powder (stabilised) | 7429-90-5 | PEL (Pyro powders)             | 5 mg/m3  | 2017-10-02 |  |
| Safflower oil                 | 8001-23-8 | TWA (mist - total)             | 10 mg/m3 | 2013-10-08 |  |
| Safflower oil                 | 8001-23-8 | TWA (mist - respirable)        | 5 mg/m3  | 2013-10-08 |  |



**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

|               |           |                                |                      |            |  |
|---------------|-----------|--------------------------------|----------------------|------------|--|
| Safflower oil | 8001-23-8 | PEL (Total dust)               | 10 mg/m <sup>3</sup> | 2014-11-26 |  |
| Safflower oil | 8001-23-8 | PEL (respirable dust fraction) | 5 mg/m <sup>3</sup>  | 2014-11-26 |  |

**8.2 Exposure controls**
**Personal protective equipment**

Eye protection : Goggles

: Safety glasses

Hand protection

Material : Solvent-resistant gloves (butyl-rubber)

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.

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

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.

**Environmental exposure controls**

General advice :

: Prevent further leakage or spillage if safe to do so.

Water : The product should not be allowed to enter drains, water courses or the soil.

:

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

Appearance : liquid

Colour : silver

Odour : characteristic

pH : No data available

Freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 100 °C

Bulk density : No data available

Flammability (solid, gas) : No data available

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

|  |                                   |
|--|-----------------------------------|
| 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               |
| Water solubility                       | : No data available               |
| 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               |
| Viscosity                              |                                   |
| Viscosity, dynamic                     | : No data available               |
| Viscosity, kinematic                   | : > 21 mm <sup>2</sup> /s (40 °C) |
| Flow time                              | : No data available               |

**9.2 Other information**

No data available

**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.

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

## METALSTAR 06 7000 Silver

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.  
Stable under recommended storage conditions.

### 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:

**Distillates (petroleum), solvent-refined middle; Gasoil — unspecified :**  
Acute oral toxicity : LD50 Rat: > 5 000 mg/kg

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

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

Acute dermal toxicity : LD50 Rabbit: > 2 000 mg/kg

**manganese neodecanoate :**

Acute oral toxicity : The component/mixture is moderately toxic after single  
ingestion.

**Skin corrosion/irritation****Product**

May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation****Product**

Vapours may cause irritation to the eyes, respiratory system and the skin.

**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**

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

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No data available

**STOT - repeated exposure**

No data available

**Aspiration toxicity**

No data available

**Further information**

**Product**

No data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects****Product:**

Additional ecological information : No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.  
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****14.2 Proper shipping name****14.3 Transport hazard class****14.4 Packing group**

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

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**14.5 Environmental hazards****14.6 Special precautions for user**

Not classified as dangerous in the meaning of transport regulations.

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

No data available

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Prohibition/Restriction**

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

**Prohibition/Restriction**

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

**Prohibition/Restriction**

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

**15.2 Chemical safety assessment**

No data available



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

**METALSTAR 06 7000 Silver**

Version 4.0

Revision Date 03.12.2019

Print Date 07.08.2020

**SECTION 16: Other information****Full text of H-Statements**

H228 : Flammable solid.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H316 : Causes mild skin irritation.

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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.