

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

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

Trade name : METALSTAR Eco 10 0006 Silver
Material number : 053446RC0

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**

: Skin corrosion/irritation, Category 3, H316
Serious eye damage/eye irritation, Category 2A, H319
Short-term (acute) aquatic hazard, Category 2, H401

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

Long-term (chronic) aquatic hazard, Category 2, H411

GHS-Labelling

Symbol(s)

:



Signal word

:

Warning

Hazard statements

:

H316: Causes mild skin irritation.
H319: Causes serious eye irritation.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

:

Prevention:
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P317 If skin irritation occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
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 No.

:

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	10 - 20
manganese neodecanoate	27253-32-3 248-374-6	Acute Tox.;4;H302 ;2;H315	1 - 10
octadecylamine	124-30-1 204-695-3	;2;H315 ;1;H318 STOT RE;2;H373 Asp. Tox.;1;H304 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	1 - 2,5

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.
- Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Remove to fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

- In case of skin contact : Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Immediately flush eye(s) with plenty of water.
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.

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

- Suitable extinguishing media : Dry sand, ABC powder, Foam
- Unsuitable extinguishing media : High volume water jet, Carbon dioxide (CO₂)
- High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during : Do not allow run-off from fire fighting to enter drains or water

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

firefighting

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

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.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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 : Do not breathe vapours/dust. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

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****Germany:**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Soybean oil	8001-22-7	AGW (Alveolar fraction)	5 mg/m ³	2022-05-31	DE TRGS 900
Peak-limit: excursion factor (category)		4;(II)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion		2;(II)			

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023


Print Date 28.02.2023

factor (category)					
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Polyethylene	9002-88-4	AGW (Inhalable fraction)	10 mg/m ³	2020-03-30	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Polyethylene	9002-88-4	AGW (Alveolate fraction)	1,25 mg/m ³	2020-03-30	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			

Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

8.2 Exposure controls

Page 8 / 19	102000009837	A member of  ALTANA
-------------	--------------	--

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

Personal protective equipment

- Eye protection : Goggles
- : Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- 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.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

Respiratory protection : Use suitable breathing protection if workplace concentration requires.

Environmental exposure controls

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

: 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.

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

Appearance : liquid

Colour : silver

Odour : characteristic

pH : substance/mixture is non-soluble (in water)

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

Auto-flammability : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

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 ² /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.

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)

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

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

Other information : No data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Components:****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

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

Product

May cause irreversible eye damage.

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

Aspiration toxicity

No data available

Further information**Product**

No data available

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

SECTION 12: Ecological information**12.1 Toxicity****Components:****octadecylamine (124-30-1) :**

M-Factor : 10

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

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects**Product:**

Additional ecological : No data available

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

information

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful 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. |
| Contaminated packaging | : | Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers. |

SECTION 14: Transport information**14.1 UN number****ADR** : 3082**TDG**

Not dangerous goods

CFR

Not dangerous goods

IMDG : 3082**IATA** : 3082

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(paint related material)

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(,paint related material)

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(paint related material)

14.3 Transport hazard class

ADR : 9

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG : 9

IATA : 9

14.4 Packing group**ADR**

Packaging group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

Tunnel restriction code : (-)

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Packaging group : III

Labels : 9

IATA

Packing instruction (cargo
aircraft) : 964

Packing instruction
(passenger aircraft) : 964

Packing instruction (LQ) : Y964

Packaging group : III

Labels : 9

14.5 Environmental hazards

ADR : Environmentally hazardous

IMDG : Marine pollutant

14.6 Special precautions for user

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

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

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
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (aluminium powder (stabilised))

15.2 Chemical safety assessment

No data available

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

METALSTAR Eco 10 0006 Silver

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

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.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H373	: May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	: Very toxic to aquatic life.

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.