

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

METALURE A-41510 MB

Version 1.0 Revision Date 27.04.2023 Print Date 28.04.2023

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

1.1 Product identifier

Trade name : METALURE A-41510 MB

Material number : 027449IA0

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

: Flammable liquids, Category 2, H225

Serious eye damage/eye irritation, Category 2A, H319

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GHS-Labelling

Symbol(s)





Signal word : Danger

Hazard statements : H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting

equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges. P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas

with water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P337 + P317 If eye irritation persists: Get medical help.
P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

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



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Hazardous components which must be listed on the label

SECTION 3: Composition/information on ingredients

Substance No. :

Hazardous components

| Chemical name | CAS-No. EINECS-No. | Classification and labelling | Concentration[%] |
|------------------------------|-------------------------|---|------------------|
| 3-methoxy-3-methylbutan-1-ol | 56539-66-3 260-252-4 | Flam. Liq.;4;H227 ;2B;H320 | 50 - 100 |
| aluminium | 7429-90-5 231-072-3 | Flam. Sol.;1;H228 | 10 - 20 |
| acetone | 67-64-1 200-662-2 | Flam. Liq.;2;H225 Acute Tox.;5;H303 Acute Tox.;5;H313 ;2A;H319 STOT SE;3;H336 | 1 - 10 |

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.

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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.

In case of skin contact : Wash off immediately with soap and plenty of water.

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

firefighting courses.

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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. For safety reasons in case

of fire, cans should be stored separately in closed containments. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use a water spray to cool fully closed

containers.

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.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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.

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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).

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).

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 formation of aerosol. 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. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with

local and national regulations.

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot

surfaces and sources of ignition.

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

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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.

No smoking. 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. Observe label precautions. 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

: 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 |
|------------|-----------|-------------------------------------|--------------------|------------|-------------|
| aluminium | 7429-90-5 | AGW (Inhalable fraction) | 10 mg/m3 | 2021-07-02 | DE TRGS 900 |

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| 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/m3 | 2021-07-02 | DE TRGS 900 | | |
| | Peak-limit: excursion factor (category) | | | | | | |
| Further inform | Further information | | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | | |
| acetone | 67-64-1 | TWA | 500 ppm 1 210 mg/m3 | 2000-06-16 | 2000/39/EC | | |
| Further inform | ation | Indicative | | | | | |
| acetone | 67-64-1 | AGW | 500 ppm 1 200 mg/m3 | 2015-03-02 | DE TRGS 900 | | |
| Peak-limit: exc factor (categor | | 2;(I) | | | | | |
| Further information | | review of compo (MAK-commissi limit value: devia there is complia | dangerous substar ounds at the work p on).European Union ations in value and p nce with the OEL and of harming the unbo | lace dangerous n (The EU has e peak limit are po nd biological tol | for the health established a ossible)When | | |

United States of America (USA):

| | Components | CAS-No. | Value type (Form of exposure) | Control parameters | Update | Basis |
|--------|-------------|-----------|-------------------------------------|-------------------------------------|------------|-----------------|
| | aluminium | 7429-90-5 | TWA (total dust) | 50 Million particles per cubic foot | 2012-07-01 | |
| | aluminium | 7429-90-5 | TWA (Respirable) | 5 mg/m3 | 2013-10-08 | |
| | aluminium | 7429-90-5 | TWA (total dust) | 15 mg/m3 | 2012-07-01 | |
| | aluminium | 7429-90-5 | TWA (total) | 10 mg/m3 | 2013-10-08 | |
| | aluminium | 7429-90-5 | TWA (respirable fraction) | 5 mg/m3 | 2012-07-01 | |
| | aluminium | 7429-90-5 | TWA (respirable fraction) | 15 Million particles per cubic foot | 2012-07-01 | |
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| aluminium | 7429-90-5 | PEL (Total dust) | 10 mg/m3 | 2014-11-26 | |
|-----------|-----------|--|--------------------------|------------|--|
| aluminium | 7429-90-5 | PEL (respirable dust fraction) | 5 mg/m3 | 2014-11-26 | |
| aluminium | 7429-90-5 | TWA (Respirable particulate matter) | 1 mg/m3 | 2008-01-01 | |
| aluminium | 7429-90-5 | TWA | 5 mg/m3 | 2005-09-01 | |
| aluminium | 7429-90-5 | TWA (Total) | 15 mg/m3 | 1989-01-19 | |
| aluminium | 7429-90-5 | TWA (Respirable fraction) | 5 mg/m3 | 1989-01-19 | |
| aluminium | 7429-90-5 | TWA (total dust) | 15 mg/m3 | 2011-07-01 | |
| aluminium | 7429-90-5 | TWA (respirable fraction) | 5 mg/m3 | 2011-07-01 | |
| aluminium | 7429-90-5 | TWA (Total dust) | 15 mg/m3 | 1989-01-19 | |
| aluminium | 7429-90-5 | TWA (respirable dust fraction) | 5 mg/m3 | 1989-01-19 | |
| aluminium | 7429-90-5 | TWA (welding fumes) | 5 mg/m3 | 2013-10-08 | |
| aluminium | 7429-90-5 | TWA (pyro powders) | 5 mg/m3 | 2013-10-08 | |
| aluminium | 7429-90-5 | TWA (Respirable particulate matter) | 1 mg/m3 | 2013-03-01 | |
| aluminium | 7429-90-5 | TWA (Fumes) | 5 mg/m3 | 1989-01-19 | |
| aluminium | 7429-90-5 | PEL (Welding fumes) | 5 mg/m3 | 2017-10-02 | |
| aluminium | 7429-90-5 | PEL (Pyro powders) | 5 mg/m3 | 2017-10-02 | |
| aluminium | 7429-90-5 | TWA (powder) | 5 mg/m3 | 1989-01-19 | |
| acetone | 67-64-1 | TWA | 250 ppm | 2016-03-01 | |
| acetone | 67-64-1 | STEL | 500 ppm | 2016-03-01 | |
| acetone | 67-64-1 | TWA | 250 ppm 590 mg/m3 | 2013-10-08 | |
| acetone | 67-64-1 | TWA | 1 000 ppm 2 400 mg/m3 | 1997-08-04 | |
| acetone | 67-64-1 | TWA | 750 ppm 1 800 mg/m3 | 1989-01-19 | |



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| acetone | 67-64-1 | STEL | 1 000 ppm 2 400 mg/m3 | 1989-01-19 | |
|---------|---------|------|--------------------------|------------|--|
| acetone | 67-64-1 | STEL | 750 ppm 1 780 mg/m3 | 2014-11-26 | |
| acetone | 67-64-1 | С | 3 000 ppm | 2014-11-26 | |
| acetone | 67-64-1 | PEL | 500 ppm 1 200 mg/m3 | 2014-11-26 | |

8.2 Exposure controls

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

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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 : 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 : viscous

Colour : silver

Odour : characteristic

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

Freezing point : No data available

Boiling point/boiling range : 174 $^{\circ}$ C Flash point : 15 $^{\circ}$ 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
Vapour pressure : No data available

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Density : 1,11 g/cm3

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
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
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.

Vapours may form explosive mixture with air.

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10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.

Heat, flames and sparks.

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:

acetone:

Acute oral toxicity : LD50 Rabbit: 4700 - 5 800 mg/kg

Mouse: 3 000 mg/kg

Rat: 9 800 mg/kg

Acute inhalation toxicity : LC50 Rat: 76 mg/l

Exposure time: 4 h

Test atmosphere: vapour

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

Skin corrosion/irritation

Product

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

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

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No data available

Aspiration toxicity

No data available

Further information

Product

Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

acetone (67-64-1):

Toxicity to daphnia and other : (Daphnia magna (Water flea)): 21 600 mg/l aquatic invertebrates

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

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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.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADR : 1263
TDG : 1263
CFR : 1263
IMDG : 1263
IATA : 1263

14.2 Proper shipping name

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ADR : PAINT TDG : PAINT CFR : PAINT

IMDG : PAINT Classified according to 2.3.2.2 IMDG-Code
IATA : PAINT classified according to 3.3.3.1 IATA-DGR

14.3 Transport hazard class

ADR : 3
TDG : 3
CFR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR

Packaging group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

TDG

Packaging group : III Labels : 3

CFR

Packaging group : III Labels : 3

IMDG

Packaging group : III

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Labels : 3

IATA

Packing instruction (cargo : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

Packing instruction (LQ) : Y344
Packaging group : III
Labels : 3

14.5 Environmental hazards

14.6 Special precautions for user

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 : Not applicable

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that : Not applicable

deplete the ozone layer

Regulation (EU) 2019/1021 on persistent organic : Not applicable

pollutants (recast)

REACH - Restrictions on the manufacture, placing on :

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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 (3-methoxy-3-methylbutan-1-ol) (aluminium powder (stabilised)) (acetone)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.

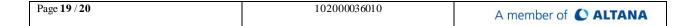
H227 : Combustible liquid. H228 : Flammable solid.

H303 : May be harmful if swallowed.
H313 : May be harmful in contact with skin.
H319 : Causes serious eye irritation.

H320 : Causes eye irritation.

H336 : May cause drowsiness or dizziness.

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.





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