

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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

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

Trade name : METALURE L-56161  
Material number : 056249IA0

**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 3, H226  
Reproductive toxicity, Category 1B, H360  
Specific target organ toxicity - single exposure, Category 3,

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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

Central nervous system, H336

**GHS-Labelling**

Symbol(s)

:



Symbol(s)



Signal word

:

Warning  
Danger

Hazard statements

:

H226: Flammable liquid and vapour.  
 H336: May cause drowsiness or dizziness.  
 H226: Flammable liquid and vapour.  
 H336: May cause drowsiness or dizziness.  
 H360: May damage fertility or the unborn child.

Precautionary statements

:

**Prevention:**  
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
 P261 Avoid breathing vapours.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P203 Obtain, read and follow all safety instructions before use.  
 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.  
 P261 Avoid breathing mist or vapours.

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

P271 Use only outdoors or in a well-ventilated area.

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 skin with water/  
shower.

P312 Call a POISON CENTER/ doctor if you feel unwell.

P370 + P378 In case of fire: Use for extinction: Dry sand.

P370 + P378 In case of fire: Use for extinction: Special  
powder for metal fires.P303 + P361 + P353 IF ON SKIN (or hair): Take off  
immediately all contaminated clothing. Rinse affected areas  
with water.P304 + P340 + P319 IF INHALED: Remove person to fresh  
air and keep comfortable for breathing. Get medical help if you  
feel unwell.

P318 IF exposed or concerned, get medical advice.

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.

P403 + P233 Store in a well-ventilated place. Keep container  
tightly closed.

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

P405 Store locked up.

**Disposal:**P501 Dispose of contents/ container to an approved waste  
disposal plant.P501 Dispose of contents/ container to an approved waste  
disposal plant.**Hazardous components which must be listed on the label**

Identification	CAS-No.
1-methoxypropan-2-ol	107-98-2
acetone	67-64-1
Identification	CAS-No.

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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

1-methoxypropan-2-ol  
acetone  
2-methoxypropanol

107-98-2  
67-64-1  
1589-47-5

**SECTION 3: Composition/information on ingredients**

Substance No. :

**Hazardous components**

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
1-methoxypropan-2-ol	107-98-2 203-539-1	Flam. Liq.;3;H226 STOT SE;3;H336	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
2-methoxypropanol	1589-47-5 216-455-5	Flam. Liq.;3;H226 Skin Irrit.;2;H315 Eye Dam.;1;H318 Repr.;1B;H360 STOT SE;3;H335	0,1 - 1

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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

**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.
If inhaled	: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: Wash off immediately with soap and plenty of water. 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**

This information is not available.

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

Suitable extinguishing media	: Dry sand, ABC powder, Foam
Unsuitable extinguishing	: High volume water jet, Carbon dioxide (CO <sub>2</sub> )

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

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

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

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Evacuate personnel to safe areas.  
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.

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

**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).  
Do not flush with water.

**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 exposure - obtain special instructions before use. 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). Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : 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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

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
1-methoxyprop	107-98-2	STEL	150 ppm 568 mg/m <sup>3</sup>	2000-06-16	2000/39/EC



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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

an-2-ol					
Further information		Identifies the possibility of significant uptake through the skinIndicative			
1-methoxyprop an-2-ol	107-98-2	TWA	100 ppm 375 mg/m3	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skinIndicative			
1-methoxyprop an-2-ol	107-98-2	AGW	100 ppm 370 mg/m3	2010-08-04	DE TRGS 900
Peak-limit: excursion factor (category)		2;(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)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/m3	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/m3	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			
acetone	67-64-1	TWA	500 ppm 1 210 mg/m3	2000-06-16	2000/39/EC
Further information		Indicative			
acetone	67-64-1	AGW	500 ppm 1 200 mg/m3	2015-03-02	DE TRGS 900

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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

Peak-limit: excursion factor (category)		2;(I)			
Further information		Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
2-methoxyprop anol	1589-47-5	AGW	5 ppm 19 mg/m3	2019-03-29	DE TRGS 900
Peak-limit: excursion factor (category)		2;(I)			
Further information		Skin absorptionWhen there is compliance with the OEL and biological tolerance values, harm to the unborn child can not be excluded			

**United States of America (USA):**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
1-methoxyprop an-2-ol	107-98-2	TWA	50 ppm	2014-03-01	
1-methoxyprop an-2-ol	107-98-2	STEL	100 ppm	2014-03-01	
1-methoxyprop an-2-ol	107-98-2	ST	150 ppm 540 mg/m3	2013-10-08	
1-methoxyprop an-2-ol	107-98-2	TWA	100 ppm 360 mg/m3	2013-10-08	
1-methoxyprop an-2-ol	107-98-2	TWA	100 ppm 360 mg/m3	1989-01-19	
1-methoxyprop	107-98-2	STEL	150 ppm 540 mg/m3	1989-01-19	

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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

an-2-ol					
1-methoxyprop an-2-ol	107-98-2	PEL	100 ppm 360 mg/m3	2014-11-26	
1-methoxyprop an-2-ol	107-98-2	STEL	150 ppm 540 mg/m3	2014-11-26	
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	
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	

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

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	
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	C	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  
: 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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

- 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.
- Skin and body protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Respiratory protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- : Use suitable breathing protection if workplace concentration requires.
- : In the case of vapour formation use a respirator with an approved filter.

**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

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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

Odour	: characteristic
pH	: substance/mixture is non-soluble (in water)
Freezing point	: No data available
Boiling point/boiling range	: 120 °C
Flash point	: 31 °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
Density	: 0,9 g/cm <sup>3</sup>
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, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

**9.2 Other information**

No data available

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

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**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.

Stable under recommended storage conditions.

Vapours may form explosive mixture with air.

**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

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

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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

**1-methoxypropan-2-ol :**

Acute oral toxicity : LD50 Rat: 4 016 mg/kg

Acute inhalation toxicity : LC50 Rat: &gt; 25,8 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Acute dermal toxicity : LD50 Rabbit: &gt; 2 000 mg/kg

**acetone :**

Acute oral toxicity : LD50 Rabbit: 4 700 - 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

Acute dermal toxicity : LD50 Rabbit: &gt; 2 000 mg/kg

**Skin corrosion/irritation**



# SAFETY DATA SHEET



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

## METALURE L-56161

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

No data available

### Serious eye damage/eye irritation

No data available

### 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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.,  
Concentrations substantially above the TLV value may cause narcotic effects., 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**

No data available

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

Additional ecological : No data available

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

information

**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. Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

**SECTION 14: Transport information****14.1 UN number**

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

**14.2 Proper shipping name**

ADR	: PAINT
TDG	: PAINT
CFR	: PAINT

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

**IMDG** : PAINT**IATA** : PAINT**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

Labels : 3

**IATA**

Packing instruction (cargo) : 366

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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

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 Concern for Authorisation (Article 59) : 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  
(1-methoxy-2-propanol)  
(aluminium powder (stabilised))  
(acetone)  
(2-methoxypropanol)

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

**METALURE L-56161**

Version 2.1

Revision Date 26.04.2023

Print Date 19.08.2023

(2-ethylhexan-1-ol)  
(propan-2-ol)

**15.2 Chemical safety assessment**

No data available

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

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H228	: Flammable solid.
H303	: May be harmful if swallowed.
H313	: May be harmful in contact with skin.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H360	: May damage fertility or the unborn child.

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.

# SAFETY DATA SHEET



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

## METALURE L-56161

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