

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

## ULTRASTAR GX-6101 Silver

Version 2.0

Revision Date 06.12.2019

Print Date 07.08.2020

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

#### 1.1 Product identifier

Trade name : ULTRASTAR GX-6101 Silver  
Material number : 053129FY0

#### 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

: Flammable liquids, Category 2, H225  
Skin corrosion/irritation, Category 3, H316  
Serious eye damage/eye irritation, Category 2A, H319

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Specific target organ toxicity - single exposure, Category 3,  
Central nervous system, H336

### GHS-Labeling

Symbol(s)



Signal word

: Danger

Hazard statements

: H225: Highly flammable liquid and vapour.  
H316: Causes mild skin irritation.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.

Precautionary statements

: **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear eye protection/ face protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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

| Identification       | CAS-No.  |
|----------------------|----------|
| ethyl acetate        | 141-78-6 |
| 1-methoxypropan-2-ol | 107-98-2 |
| isopropyl acetate    | 108-21-4 |

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### SECTION 3: Composition/information on ingredients

Substance No. :

#### Hazardous components

| Chemical name                 | CAS-No.<br>EINECS-No.   | Classification and labelling                              | Concentration[%] |
|-------------------------------|-------------------------|---|------------------|
| ethyl acetate                 | 141-78-6<br>205-500-4   | Flam. Liq.;2;H225<br>Eye Irrit.;2A;H319<br>STOT SE;3;H336 | 25 - 50          |
| 1-methoxy-2-propanol          | 107-98-2<br>203-539-1   | Flam. Liq.;3;H226<br>STOT SE;3;H336                       | 10 - 20          |
| isopropyl acetate             | 108-21-4<br>203-561-1   | Flam. Liq.;2;H225<br>Eye Irrit.;2A;H319<br>STOT SE;3;H336 | 10 - 20          |
| aluminium powder (stabilised) | 7429-90-5<br>231-072-3  | Flam. Sol.;1;H228   | 10 - 20          |
| ethanol                       | 64-17-5<br>200-578-6    | Flam. Liq.;2;H225<br>Eye Irrit.;2A;H319                   | 1 - 10           |
| butyl lactate                 | 34451-19-9<br>205-316-4 | Eye Irrit.;2;H319<br>Skin Irrit.;2;H315                   | 1 - 10           |

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

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**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.
- Move out of dangerous area.  
Consult a physician.  
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 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.
- Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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**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

**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 : 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.

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

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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 : 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).  
  
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.

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## 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. Avoid contact with skin and eyes. For personal protection see

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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. To avoid spills during handling keep bottle on a metal tray. 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 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. 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

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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<br>(Form of exposure)  | Control parameters                 | Update     | Basis       |
|---|----------|---|------------------------------------|------------|-------------|
| ethyl acetate                           | 141-78-6 | AGW   | 200 ppm<br>730 mg/m <sup>3</sup>   | 2017-06-08 | DE TRGS 900 |
| Peak-limit: excursion factor (category) |          | 2;(l)   |                                    |            |             |
| 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 |                                    |            |             |
| ethyl acetate                           | 141-78-6 | STEL  | 400 ppm<br>1 468 mg/m <sup>3</sup> | 2017-02-01 | 2017/164/EU |
| Further information                     |          | Indicative  |                                    |            |             |
| ethyl acetate                           | 141-78-6 | TWA   | 200 ppm<br>734 mg/m <sup>3</sup>   | 2017-02-01 | 2017/164/EU |



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|   |           |   |                                  |            |             |
|---|-----------|---|----------------------------------|------------|-------------|
| Further information                     |           | Indicative  |                                  |            |             |
| 1-methoxy-2-propanol                    | 107-98-2  | STEL  | 150 ppm<br>568 mg/m <sup>3</sup> | 2000-06-16 | 2000/39/EC  |
| Further information                     |           | Identifies the possibility of significant uptake through the skin<br>Indicative   |                                  |            |             |
| 1-methoxy-2-propanol                    | 107-98-2  | TWA   | 100 ppm<br>375 mg/m <sup>3</sup> | 2000-06-16 | 2000/39/EC  |
| Further information                     |           | Identifies the possibility of significant uptake through the skin<br>Indicative   |                                  |            |             |
| 1-methoxy-2-propanol                    | 107-98-2  | AGW   | 100 ppm<br>370 mg/m <sup>3</sup> | 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 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  |                                  |            |             |

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|   |         |   |                                  |            |             |
|---|---------|---|----------------------------------|------------|-------------|
|   |         | review of compounds at the work place dangerous for the health (MAK-commission).  |                                  |            |             |
| ethanol                                 | 64-17-5 | AGW   | 500 ppm<br>960 mg/m <sup>3</sup> | 2006-01-01 | DE TRGS 900 |
| Peak-limit: excursion factor (category) |         | 2;(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 |                                  |            |             |

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Goggles

: Eye wash bottle with pure water  
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

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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 : 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.
- : In the case of vapour formation use a respirator with an approved filter.

**Environmental exposure controls**

General advice :

- : 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.

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

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**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            | : 76 °C             |
| Flash point                            | : -4 °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                                | : 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, dynamic                     | : No data available |

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Viscosity, kinematic : No data available

Flow time : No data available

### 9.2 Other information

No data available

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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

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Hazardous decomposition products : No data available

Other information : No data available

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

Acute oral toxicity : Rat: 5 620 mg/kg

Acute inhalation toxicity : LC50 Rat: 56 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Acute dermal toxicity : LD50 Rabbit: > 18 000 mg/kg

**1-methoxy-2-propanol :**

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

Acute inhalation toxicity : LC50 Rat: > 25,8 mg/l

Exposure time: 4 h

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Test atmosphere: vapour

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

**isopropyl acetate :**

Acute oral toxicity : LD50 Rat: 6 750 mg/kg

Acute inhalation toxicity : LC50 Rat: 50,6 mg/l

Exposure time: 8 h

Test atmosphere: vapour

Acute dermal toxicity : LD50 Rabbit: &gt; 17 436 mg/kg

Target Organs: Skin

**ethanol :**

Acute oral toxicity : LD50 Mouse: 3 450 mg/kg

LD50 Rat: 7 060 mg/kg

LD50 Rabbit: 6 300 mg/kg

Acute inhalation toxicity : LC50 Rat: 20 000 mg/l

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Exposure time: 4 h

Test atmosphere: vapour

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

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

Extremely corrosive and destructive to tissue.

**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**



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No data available

### STOT - repeated exposure

No data available

### Aspiration toxicity

No data available

### Further information

#### Product

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:

##### **ethyl acetate (141-78-6) :**

Toxicity to daphnia and other : (Daphnia (water flea)): 717 mg/l  
aquatic invertebrates

##### **isopropyl acetate (108-21-4) :**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 400 mg/l  
Exposure time: 96 h

### 12.2 Persistence and degradability

No data available

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**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 information : No data available

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**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.

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

ADR : 1210  
TDG : 1210  
CFR : 1210  
IMDG : 1210  
IATA : 1210

**14.2 Proper shipping name**

ADR : PRINTING INK  
TDG : PRINTING INK  
CFR : PRINTING INK  
IMDG : PRINTING INK  
IATA : PRINTING INK

**14.3 Transport hazard class**

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

**14.4 Packing group**

ADR  
Packaging group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

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Tunnel restriction code : (D/E)

**TDG**

Packaging group : II

Labels : 3

**CFR**

Packaging group : II

Labels : 3

**IMDG**

Packaging group : II

Labels : 3

EmS Number : F-E, S-D

**IATA**Packing instruction (cargo  
aircraft) : 364Packing instruction  
(passenger aircraft) : 353

Packing instruction (LQ) : Y341

Packaging group : II

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

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### 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

#### 15.2 Chemical safety assessment

No data available

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### SECTION 16: Other information

#### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H226 : Flammable liquid and vapour.  
H228 : Flammable solid.  
H315 : Causes skin irritation.  
H316 : Causes mild skin irritation.  
H319 : Causes serious 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.

# SAFETY DATA SHEET



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