## According to Regulation (EC) No 2015/830 and (EC) No 1907/2006

## 1. Product and Company Identification

### 1.1 Product identifiers

Product name: ClayStar LP
Type of product: Mixture

### 1.2 Relevant identified uses of the substance or mixtures and uses advised against

Identified uses: Processing aid for industrial applications.
Uses advised against: None.

### 1.3 Details of the supplier of the Safety Data Sheet

Sirius-ES Handels GmbH
Bahnhofplatz 3
4600 Wels
Austria
Telephone: +43(0)7242 – 93965660
Telefax: +43(0)7242 – 93965666
e-mail: office@sirius-es.com
Web: www.sirius-es.com

### 1.4 Emergency telephone number

Germany: Giftnotruf Berlin (Berlin): +49 30 19 240
Austria: Vergiftungszentrale Wien: +43 1 406 43 430

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008: Not classified.

### 2.2 GHS Label Elements, including precautionary statements

Labelling according to Regulation (EC) 1272/2008:
Hazard pictogram(s): None.
Signal word: None.
Hazard statement(s): None.
Precautionary statement(s): None.
Additional elements: EUH210 - Safety data sheet available on request

### 2.3 Other hazards

Spills produce extremely slippery surfaces.
PBT and vPvB assessment:
Does not fulfill the criteria according to Annex XIII of REACH.

## 3. Composition/information on ingredients

### 3.1 Chemical characterization

Not applicable, this product is not a substance.

**Warranty** - This information is given in good faith and to the best of our knowledge. Every user of our products is responsible as regards observation of all legal regulations including patent laws. Detailed information on handling, and eventual precautions to be observed in the use of the product can be found on our relevant Health and Safety Information Sheet.

### 3.2 Mixtures

**Hazardous components**

| | |
|---|---|
| Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, | < 2% aromatics |
| Concentration/ -range: | 20 - 45% |
| ECHA list number | 920-107-4 |
| (Assigned to substances without a CAS N° or other numerical identifier.) | |
| REACH Registration Number: | 01-2119453414-43-XXXX |
| Classification according to Regulation (EC) No.1272/2008: | Asp. Tox. 1;H304 |

*Notes*

Does not result in classification of the mixture if the kinematic viscosity is greater than 20.5 $mm^2/s$ measured at 40°C.

| | |
|---|---|
| Isotridecanol, ethoxylated | |
| Concentration/ -range: | < 3% |
| EC-No.: | Polymer |
| REACH Registration Number: | Not applicable (polymer). |
| Classification according to Regulation (EC) No.1272/2008: | Acute Tox. 4;H302,<br>Eye Dam. 1;H318 |

For explanation of abbreviations see section 16

## 4. First Aid measures

### 4.1 Description of first aid measures

Inhalation:

Move to fresh air. No hazards which require special first aid measures.

Skin contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Alternatively, rinse immediately with Diphoterine ®. Get prompt medical attention.

Ingestion:

Rinse mouth with water. Do NOT induce vomiting. Call a physician or poison control centre immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

None under normal use.

### 4.3 Indication of any immediate medical attention and special treatment needed

None reasonably foreseeable.

Other information:

None.

## 5. Firefighting measures

### 5.1 Extinguisher media

Suitable extinguishing media:

Water. Water spray. Foam. Carbon dioxide ($CO_2$). Dry powder.

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Unsuitable extinguishing media:
None.

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

Hazardous decomposition products:
Carbon oxides (COx). Nitrogen oxides (NOx). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

**5.3 Advice for firefighters**

Protective measures:
Wear self-contained breathing apparatus and protective suit.
Other information:
Spills produce extremely slippery surfaces.

**5.4 Further information**

None.

## 6. Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions:
Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.
Protective equipment:
Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).
Emergency procedures:
Keep people away from spill/leak.

**6.2 Environmental precautions**

Do not contaminate water.

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

Small spills:
Do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
Large spills:
Do not flush with water. Dam up. Clean up promptly by scoop or vacuum.
Residues:
Soak up with inert absorbent material. *After cleaning, flush away traces with water.*

**6.4 Reference to other sections**

| | |
|---|---|
| SECTION 7: | Handling and storage |
| SECTION 8: | Exposure controls/personal protection |
| SECTION 13: | Disposal considerations |

## 7. Handling and storage

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When using, do not eat, drink or smoke.

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

Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material. Incompatible with oxidizing agents.

### 7.3 Specific end use(s)

None.

## 8. Exposure controls / personal protection

### 8.1 Control parameters

National occupational exposure limits:

None.

Derived No and Minimum Effect Levels (DNELs/DMELs)

None known.

Predicted no-effect concentrations (PNECs)

None known.

### 8.2 Exposure controls

**Appropriate engineering controls**

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

**Personal protective equipment**

Eye/face protection:

Safety glasses with side-shields. No contact lenses.

Skin protection:

Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.

Hand protection:

PVC or other plastic material gloves.

Respiratory protection:

No personal respiratory protective equipment normally required.

Additional advice:

Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product.

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Appearance: | Viscous liquid, Milky. |
| Odour: | Aliphatic. |
| Odour Threshold: | No data available. |
| pH: | 5 - 8 @ 5 g/L |
| Melting point/freezing point: | < 5°C |
| Initial boiling point and boiling range: | > 100°C |

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| | |
|---|---|
| Flash point: | Does not flash. |
| Evaporation rate: | No data available. |
| Flammability (solid, gas): | Not applicable. |
| Upper/lower flammability or explosive limits: | Not expected to create explosive atmospheres. |
| Vapour pressure: | 2.3 kPa @ 20°C |
| Vapour density: | 0.804 g/litre @ 20°C |
| Relative density: | 1.0 - 1.1 |
| Solubility(ies): | Completely miscible. |
| Partition coefficient: | Not applicable. |
| Autoignition temperature: | No data available. |
| Decomposition temperature: | > 150°C |
| Viscosity: | > 20.5 $mm^2/s$ @ 40°C |
| Explosive properties: | Not expected to be explosive based on the chemical structure. |
| Oxidizing properties: | Not expected to be oxidizing based on the chemical structure. |

### 9.2 Other safety information

None.

## 10. Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None known.

### 10.4 Conditions to avoid

Protect from frost, heat and sunlight.

### 10.5 Incompatible materials

Incompatible with oxidizing agents.

### 10.6 Hazardous decomposition products

Thermal decomposition may produce: nitrogen oxides (NOx), carbon oxides (COx).
Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Information on the product as supplied:

| | |
|---|---|
| Acute oral toxicity: | LD50/oral/rat > 5000 mg/kg. |
| Acute dermal toxicity: | LD50/dermal/rat > 5000 mg/kg |
| Acute inhalation toxicity: | The product is not expected to be toxic by inhalation. |
| Skin corrosion/irritation: | Non-irritating to skin. |

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| | |
|---|---|
| Serious eye damage/eye irritation: | Not irritating. (OECD 437) |
| Respiratory/skin sensitisation: | Not sensitizing. |
| Mutagenicity: | Not mutagenic. |
| Carcinogenicity: | Not carcinogenic. |
| Reproductive toxicity: | Not toxic for reproduction. |
| STOT - single exposure: | No known effects. |
| STOT - repeated exposure: | No known effects. |
| Aspiration hazard: | Due to the viscosity, this product does not present an aspiration hazard. |

**Relevant information on the hazardous components:**

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | |
|---|---|
| Acute oral toxicity: | LD50/oral/rat > 5000 mg/kg. (OECD 401) |
| Acute dermal toxicity: | LD50/dermal/rabbit > 5000 mg/kg (OECD 402) |
| Acute inhalation toxicity: | LC50/inhalation/4 h/rat = 4951 mg/m3. (OECD 403) |
| Skin corrosion/irritation: | Not irritating. (OECD 404)<br>Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/eye irritation: | Not irritating. (OECD 405) |
| Respiratory/skin sensitization: | By analogy with similar products, this product is not expected to be sensitizing. (OECD 406) |
| Mutagenicity: | Not mutagenic. (OECD 471, 473, 474, 476, 478, 479) |
| Carcinogenicity: | Carcinogenicity study in rats (OECD 451): Negative. |
| Reproductive toxicity: | By analogy with similar substances, this substance is not expected to be toxic for reproduction. NOAEL/rat = 300 ppm. (OECD 421) |
| STOT - single exposure: | No known effects. |
| STOT - repeated exposure: | NOAEL/oral/rat/90 days >= 3000 mg/kg/day (OECD 408)<br>(Based on results obtained from tests on analogous products). |
| Aspiration hazard: | May be fatal if swallowed and enters airways. |

Isotridecanol, ethoxylated

| | |
|---|---|
| Acute oral toxicity: | LD50/oral/rat = 500 - 2000 mg/kg. |
| Acute dermal toxicity: | LD50/dermal/rabbit > 2000 mg/kg |
| Acute inhalation toxicity: | No data available. |
| Skin corrosion/irritation: | Not irritating. (OECD 404) |
| Serious eye damage/eye irritation: | Causes serious eye irritation. (OECD 405) |
| Respiratory/skin sensitization: | The results of testing on guinea pigs showed this material to be non-sensitizing. |
| Mutagenicity: | Not mutagenic. |
| Carcinogenicity: | Not carcinogenic. |
| Reproductive toxicity: | Two-Generation Reproduction Toxicity (OECD 416)<br>NOAEL/rat > 250 mg/kg/day<br>Prenatal Development Toxicity Study (OECD 414)<br>NOAEL/Maternal toxicity/rat > 50 mg/kg/day<br>NOAEL/Developmental toxicity/rat > 50 mg/kg/day |

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| | |
|---|---|
| STOT - single exposure: | No known effects. |
| STOT - repeated exposure: | NOAEL/oral/rat/600 days = 50 mg/kg/day |
| Aspiration hazard: | No known effects. |

## 12. Ecological information

### 12.1 Toxicity

Information on the product as supplied:

| | |
|---|---|
| Acute toxicity to fish: | LC50/Oncorhynchus mykiss/96 hours > 100 mg/L. |
| Acute toxicity to invertebrates: | EC50/Daphnia/48 hours > 100 mg/L |
| Acute toxicity to algae: | IC50/Algae/72 hours > 100 mg/L |
| Chronic toxicity to fish: | No data available. |
| Chronic toxicity to invertebrates: | No data available. |
| Toxicity to microorganisms: | No data available. |
| Effects on terrestrial organisms: | No data available. |
| Sediment toxicity: | No data available. |

**Relevant information on the hazardous components:**

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | |
|---|---|
| Acute toxicity to fish: | LC0/Oncorhynchus mykiss/96 hours > 1000 mg/L. (OECD 203) |
| Acute toxicity to invertebrates: | EC0/Daphnia magna/48 hours > 1000 mg/L. (OECD 202) |
| Acute toxicity to algae: | IC0/Pseudokirchneriella subcapitata/72 hours > 1000 mg/L. (OECD 201) |
| Chronic toxicity to fish: | NOEC/Oncorhynchus mykiss/28 days > 1000 mg/L. |
| Chronic toxicity to invertebrates: | NOEC/Daphnia magna/21 days > 1000 mg/L. |
| Toxicity to microorganisms: | EC50/Tetrahymena pyriformis/ 48h > 1000 mg/L. |
| Effects on terrestrial organisms: | No data available. |
| Sediment toxicity: | No data available. Readily biodegradable, exposure to sediment is unlikely. |

Isotridecanol, ethoxylated

| | |
|---|---|
| Acute toxicity to fish: | LC50/Cyprinus carpio/96 hours = 1 - 10 mg/L (OECD 203) |
| Acute toxicity to invertebrates: | EC50/Daphnia/48 hours = 1 - 10 mg/L (OECD 202) |
| Acute toxicity to algae: | IC50/Desmodesmus subspicatus/72 hours = 1 - 10 mg/L (OECD 201) |
| Chronic toxicity to fish: | No data available. |
| Chronic toxicity to invertebrates: | No data available. |
| Toxicity to microorganisms: | EC10/activated sludge/17 hours > 10000 mg/L (DIN 38412-8) |
| Effects on terrestrial organisms: | No data available. |
| Sediment toxicity: | No data available. |

### 12.2 Persistence and degradability

Information on the product as supplied:

| | |
|---|---|
| Degradation: | Not readily biodegradable. |

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| | |
|---|---|
| Hydrolysis: | Does not hydrolyse. |
| Photolysis: | No data available. |

**Relevant information on the hazardous components:**

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | |
|---|---|
| Degradation: | Readily biodegradable. |
| Hydrolysis: | Does not hydrolyse. |
| Photolysis: | No data available. |

Isotridecanol, ethoxylated

| | |
|---|---|
| Degradation: | Readily biodegradable. > 60% / 28 days (OECD 301 B) |
| Hydrolysis: | Does not hydrolyse. |
| Photolysis: | No data available. |

### 12.3 Bioaccumulative potential

Information on the product as supplied:

The product is not expected to bioaccumulate.

| | |
|---|---|
| Partition co-efficient (Log Pow): | Not applicable. |
| Bioconcentration factor (BCF): | No data available. |

**Relevant information on the hazardous components:**

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | |
|---|---|
| Partition co-efficient (Log Pow): | 3-6 |
| Bioconcentration factor (BCF): | No data available |

Isotridecanol, ethoxylated

| | |
|---|---|
| Partition co-efficient (Log Pow): | >3 |
| Bioconcentration factor (BCF): | No data available |

### 12.4 Mobility in soil

Information on the product as supplied:

No data available.

**Relevant information on the hazardous components:**

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | |
|---|---|
| Koc: | No data available. |

Isotridecanol, ethoxylated

| | |
|---|---|
| Koc: | >5000 |

### 12.5 Results of PBT and vPvB assessment

PBT assessment:

Does not fulfill the criteria according to Annex XIII of REACH.

vPvB assessment:

Does not fulfill the criteria according to Annex XIII of REACH.

### 12.6 Other adverse effects

None.

## 13. Disposal considerations

### 13.1 Waste treatment methods

**Warranty** - This information is given in good faith and to the best of our knowledge. Every user of our products is responsible as regards observation of all legal regulations including patent laws. Detailed information on handling, and eventual precautions to be observed in the use of the product can be found on our relevant Health and Safety Information Sheet.

Waste from residues/unused products:
Dispose in accordance with local and national regulations.
Contaminated packaging:
Rinse empty containers with water and use the rinse-water to prepare the working solution. Dispose in accordance with local and national regulations.
Recycling:
The product and its packaging are not suitable for recycling.

## 14. Transport information

**14.1 UN number**
Not classified.
**14.2 UN proper shipping name**
Not classified.
**14.3 Transport hazard class(es)**
Not classified.
**14.4 Packing group**
Not classified.
**14.5 Environmental hazards**
Not classified.
**14.6 Special precautions for user**
None.
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
Not classified.
**14.8 Additional information**
None.

## 15. Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.
**15.2 Chemical Safety assessment**
A Chemical Safety Assessment for this product has been carried out. All relevant information used to conduct this assessment are included in this Safety Data Sheet as well any as any resulting Risk Reduction Measures.

## 16. Other information

This data sheet contains changes from the previous version in section(s):

| | |
|---|---|
| SECTION 11. | Toxicological information |
| SECTION 16. | Other Information |

Key or legend to abbreviations and acronyms used in the safety data sheet:
*Abbreviations:*
Acute Tox. 4 = Acute toxicity Category Code 4
Asp. Tox. 1 = Aspiration hazard Category Code 1
Eye Dam 1 = Serious eye damage/eye irritation Category Code 1

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*H-Phrases:*
EUH066 - Repeated exposure may cause skin dryness or cracking
H318 - Causes serious eye damage
H304 - May be fatal if swallowed and enters airways
H302 - Harmful if swallowed
This SDS was prepared in accordance with the following:
Regulation (EU) No. 2015/830
Regulation (EC) No. 1272/2008
Regulation (EC) No. 1907/2006
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.

**ANNEX(ES)**
This product is not hazardous as supplied and does not contain:

- hazardous components which require REACH registration; or,
- demonstrate relevant effects which would require a chemical safety assessment; or,
- are present at concentrations above their cut-off value.

Therefore, according to Regulation (EC) No 1907/2006, Article 31, paragraph 7, an Exposure Scenario is not required as an annex to the Safety Data Sheet.

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