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

1.1 Product identifier
   Trade name : FERRICON 535 001
   Material number : 053336G60

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 of person responsible for the SDS : msds.eckart@altana.com

1.4 Emergency telephone number
   GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
   From outside US : (001) 352-323-3500
   (First call in English, response in your language is possible)
   US & Canada (toll free) : 1-800-5355-053

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Classification (REGULATION (EC) No 1272/2008)
   Flammable solids, Category 1  H228: Flammable solid.
   Eye irritation, Category 2  H319: Causes serious eye irritation.
   Specific target organ toxicity - single exposure, Category 3, Central nervous system  H336: May cause drowsiness or dizziness.

   Classification (67/548/EEC, 1999/45/EC)
   Highly flammable  R11: Highly flammable.
   Irritant  R36: Irritating to eyes.
R67: Vapours may cause drowsiness and dizziness.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

**Hazard pictograms:**
- Flammable solid
- Causes serious eye irritation
- May cause drowsiness or dizziness

**Signal word:** Danger

**Hazard statements:**
- H228 Flammable solid.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

**Precautionary statements:**
- **Prevention:**
  - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - P240 Ground/bond container and receiving equipment.
  - P261 Avoid breathing vapours.
  - P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

- **Response:**
  - P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P312 Call a POISON CENTER/doctor if you feel unwell.
  - P337 + P313 If eye irritation persists: Get medical advice/ attention.
  - P370 + P378 In case of fire: Use for extinction: Dry sand.

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

- **Disposal:**
  - P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazardous components which must be listed on the label:**
- 67-63-0 isopropanol
- Flammable solid
- Causes serious eye irritation
- May cause drowsiness or dizziness
Precautionary statements:
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 protective gloves/ eye protection/ face protection.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
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:
67-63-0 isopropanol

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Registration number</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>isopropanol</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>01-2119457558-25</td>
<td>F; R11 Xi; R36 R67</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td>
<td>&gt;= 50 - &lt;= 100</td>
</tr>
<tr>
<td>iron</td>
<td>7439-89-6</td>
<td>231-096-4</td>
<td>01-2119462838-24</td>
<td>F; F; R11</td>
<td>Flam. Sol. 1; H228</td>
<td>&gt;= 25 - &lt; 50</td>
</tr>
</tbody>
</table>

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.
For explanation of abbreviations see section 16.
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

FERRICON 535 001

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
- 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
- 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.
- 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
- Alcohol-resistant foam
- Carbon dioxide (CO2)
- Dry chemical

Unsuitable extinguishing media
- High volume water jet

5.2 Special hazards arising from the substance or mixture
This information is not available.

5.3 Advice for firefighters

Special protective equipment for firefighters
- Wear self-contained breathing apparatus for firefighting if necessary.

Further information
- 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: Use personal protective equipment. Avoid dust formation. Remove all sources of ignition.

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 material for containment and cleaning up
Methods for cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
This information is not available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling: Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Avoid dust formation. 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: No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis (Version Date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>isopropanol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>400 ppm 999 mg/m3</td>
<td>GB EH40 (2006-09-01)</td>
</tr>
<tr>
<td>isopropanol</td>
<td>67-63-0</td>
<td>STEL</td>
<td>500 ppm 1,250 mg/m3</td>
<td>GB EH40 (2006-09-01)</td>
</tr>
<tr>
<td>iron</td>
<td>7439-89-6</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m3</td>
<td>GB EH40 (2011-12-01)</td>
</tr>
</tbody>
</table>

Further information
The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m\(^{-3}\) 8-hour TWA of inhalable dust or 4 mg.m\(^{-3}\) 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis (Version Date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>iron</td>
<td>7439-89-6</td>
<td>TWA (Respirable)</td>
<td>4 mg/m3</td>
<td>GB EH40 (2011-12-01)</td>
</tr>
</tbody>
</table>

Further information
The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m\(^{-3}\) 8-hour TWA of inhalable dust or 4 mg.m\(^{-3}\) 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis (Version Date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>silicon dioxide</td>
<td>7631-86-9</td>
<td>TWA (Inhalable)</td>
<td>6 mg/m3</td>
<td>GB EH40 (2007-08-01)</td>
</tr>
</tbody>
</table>

Further information
For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m\(^{-3}\) 8-hour TWA of inhalable dust or 4 mg.m\(^{-3}\) 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne...
material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA (Respirable)</th>
<th>TWA (Inhalable Dust)</th>
<th>GB EH40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Dioxide</td>
<td>2.4 mg/m3</td>
<td>6 mg/m3 (Silica)</td>
<td>(2007-08-01)</td>
</tr>
</tbody>
</table>

Further information

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a figure three times the long-term exposure should be used

<table>
<thead>
<tr>
<th>Substance</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>silicon dioxide</td>
<td></td>
<td></td>
<td>TWA (Respirable dust)</td>
<td>2.4 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Silica)</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(2011-12-01)</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>propan-2-ol (67-63-0)</td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>888 mg/kg</td>
</tr>
<tr>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>500 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>26 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>319 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>89 mg/m³</td>
<td></td>
</tr>
<tr>
<td>iron (7439-89-6)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>1.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>0.71 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol (67-63-0)</td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>888 mg/kg</td>
</tr>
<tr>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>500 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>26 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>319 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>89 mg/m³</td>
<td></td>
</tr>
<tr>
<td>iron (7439-89-6)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>1.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>0.71 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
propan-2-ol (67-63-0) & Soil & 28 mg/kg \\
Fresh water & 140.9 mg/l \\
Fresh water sediment & 552 mg/kg \\
Marine water & 140.9 mg/l \\
Marine sediment & 552 mg/kg \\
STP & 2251 mg/l \\

8.2 Exposure controls

**Personal protective equipment**

Eye protection : Eye wash bottle with pure water  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection  
Remarks : 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 : In the case of dust or aerosol formation use respirator with an approved filter.

Environmental exposure controls : This information is not available.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance** : Pasty solid

**Colour** : silver

**Odour** : characteristic

**Odour Threshold** : No data available

**pH** : No data available

**Freezing point** : No data available

**Boiling point/boiling range** : 82 °C

**Flash point** : 13 °C

**Evaporation rate** : No data available

**Flammability (solid, gas)** : The substance or mixture is a flammable solid with the category 1.

**Auto-flammability** : No data available

**Upper explosion limit** : No data available

**Lower explosion limit** : No data available

**Vapour pressure** : No data available

**Relative vapour density** : 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: No decomposition if stored and applied as directed.

10.4 Conditions to avoid
Conditions to avoid: Heat, flames and sparks.

10.5 Incompatible materials
Materials to avoid: This information is not available.

10.6 Hazardous decomposition products
Contact with water or humid air: This information is not available.
Thermal decomposition: This information is not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
Components:
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

FERRICON 535 001

Version 2.0  Revision Date: 23.06.2016  SDS Number: 102000000486  Print Date: 20.11.2018  Date of first issue: 02.01.2014

67-63-0:
Acute oral toxicity  :  LD50 (Rat): > 2,000 mg/kg
Acute inhalation toxicity  :  LC50 (Rat): > 20 mg/l
  Exposure time: 8 h
Acute dermal toxicity  :  LD50 (Rabbit): > 2,000 mg/kg

7439-89-6:
Acute oral toxicity  :  LD50 (Rat): 9,860 mg/kg
Acute inhalation toxicity  :  LC50 (Rat): > 0.25 mg/l
  Exposure time: 6 h

Skin corrosion/irritation

Product:
Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product:
Remarks: May cause irreversible eye damage.

Further information

Product:
Remarks: 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
No data available

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

Product:
Assessment  :  This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or
12.6 Other adverse effects

**Product:**
Additional ecological information: Remarks: No data available

### SECTION 13: Disposal considerations

**European Waste Catalogue:** 12 01 04 - non-ferrous metal dust and particles

**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**

<table>
<thead>
<tr>
<th>ADR</th>
<th>UN 1325</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG</td>
<td>UN 1325</td>
</tr>
<tr>
<td>IATA</td>
<td>UN 1325</td>
</tr>
</tbody>
</table>

**14.2 UN proper shipping name**

<table>
<thead>
<tr>
<th>ADR</th>
<th>FLAMMABLE SOLID, ORGANIC, N.O.S. (Iron pigment paste)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG</td>
<td>FLAMMABLE SOLID, ORGANIC, N.O.S. (Iron pigment paste)</td>
</tr>
<tr>
<td>IATA</td>
<td>Flammable solid, organic, n.o.s. (Iron pigment paste)</td>
</tr>
</tbody>
</table>

**14.3 Transport hazard class(es)**

<table>
<thead>
<tr>
<th>ADR</th>
<th>4.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG</td>
<td>4.1</td>
</tr>
<tr>
<td>IATA</td>
<td>4.1</td>
</tr>
</tbody>
</table>

**14.4 Packing group**

**ADR**

very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

FERRICON 535 001

Version 2.0 Revision Date: 23.06.2016 SDS Number: 1020000000486 Print Date: 20.11.2018 Date of first issue: 02.01.2014

Packing group : II
Classification Code : F1
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : (E)

**IMDG**

Packing group : II
Labels : 4.1
EmS Number : F-G,S-G

**IATA**

Packing instruction (cargo aircraft) : 448
Packing instruction (passenger aircraft) : 445
Packing instruction (LQ) : Y441
Packing group : II
Labels : Flammable Solid
Remarks : IMDG Code segregation group 15 - Powdered metals

### 14.5 Environmental hazards

**ADR**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### 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

This information is not available.

### SECTION 16: Other information

**Full text of R-Phrases**

- **R11** : Highly flammable.
- **R36** : Irritating to eyes.
- **R67** : Vapours may cause drowsiness and dizziness.
Full text of H-Statements

H225 : Highly flammable liquid and vapour.
H228 : Flammable solid.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.

Full text of other abbreviations

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Flam. Sol. : Flammable solids
STOT SE : Specific target organ toxicity - single exposure

Further information

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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