1. Identification

Product name : Sika® FerroGard®-903

Supplier : Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
USA
www.sikausa.com

Telephone : (201) 933-8800
Telefax : (201) 804-1076
E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1 H318: Causes serious eye damage.
Carcinogenicity, Category 2 H351: Suspected of causing cancer.

GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.
H351 Suspected of causing cancer.

Precautionary Statements :

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dusts or mists.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281 Use personal protective equipment as required.

Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT...
induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.

Storage:
P405 Store locked up.

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

See Section 11 for more detailed information on health effects and symptoms.
There are no hazards not otherwise classified that have been identified during the classification process.
There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-aminoethanol</td>
<td>141-43-5</td>
<td>&gt;= 10 - &lt; 20 %</td>
</tr>
<tr>
<td>tributyl phosphate</td>
<td>126-73-8</td>
<td>&gt;= 0.1 - &lt; 1 %</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air. Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

In case of eye contact : 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. Continue rinsing eyes during transport to hospital.
Remove contact lenses. 
Keep eye wide open while rinsing.

If swallowed:
- Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice.
- Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed:
- Health injuries may be delayed. Corrosive effects
- Dermatitis
  See Section 11 for more detailed information on health effects and symptoms.
- Causes serious eye damage.
  Suspected of causing cancer.
- Causes severe burns.

Protection of first-aiders:
- Move out of dangerous area.
- Consult a physician.
- Show this material safety data sheet to the doctor in attendance.

Notes to physician:
- Treat symptomatically.

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5. Fire-fighting measures

Suitable extinguishing media:
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific extinguishing methods:
- 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.

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

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:
- Use personal protective equipment.
  Deny access to unprotected persons.

Environmental precautions:
- Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
  Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up:
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
  Keep in suitable, closed containers for disposal.
7. Handling and storage

Advice on safe handling:
Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products.

Conditions for safe storage:
Store in original container.
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.
Store in accordance with local regulations.

Materials to avoid:
No data available

8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Basis **</th>
<th>Value</th>
<th>Exposure limit(s)* / Form of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-aminoethanol</td>
<td>141-43-5</td>
<td>ACGIH</td>
<td>TWA</td>
<td>3 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>STEL</td>
<td>6 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>STEL</td>
<td>3 ppm 6 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>3 ppm 8 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA P0</td>
<td>TWA</td>
<td>3 ppm 8 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA P0</td>
<td>STEL</td>
<td>6 ppm 15 mg/m3</td>
</tr>
<tr>
<td>Tributyl phosphate</td>
<td>126-73-8</td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.2 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA P0</td>
<td>TWA</td>
<td>0.2 ppm 2.5 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA</td>
<td>5 mg/m3 Inhalable fraction and vapor</td>
</tr>
</tbody>
</table>
*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Basis**
ACGIH. Threshold Limit Values (TLV)
OSHA P0. Table Z-1, Limit for Air Contaminant (1989 Vacated Values)
OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant
OSHA P2. Permissible Exposure Limits (PEL), Table Z-2
OSHA Z3. Table Z-3, Mineral Dust

**Engineering measures**
Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protective equipment**

**Respiratory protection**
Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

**Hand protection**
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Remarks**

**Eye protection**
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

**Skin and body protection**
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

**Hygiene measures**
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

9. **Physical and chemical properties**
### Appearance
- **liquid**

### Color
- **clear yellow**

### Odor
- **characteristic**

### Odor Threshold
- **No data available**

### Flash point
- **> 212 °F (> 100 °C)**

### Ignition temperature
- **No data available**

### Decomposition temperature
- **No data available**

### Lower explosion limit (Vol%)
- **No data available**

### Upper explosion limit (Vol%)
- **No data available**

### Flammability (solid, gas)
- **No data available**

### Oxidizing properties
- **No data available**

### pH
- **10.8**

### Melting point/range / Freezing point
- **No data available**

### Boiling point/boiling range
- **No data available**

### Vapor pressure
- **17 mmHg (23 hpa)**

### Density
- **ca.1.14 g/cm3 at 73 °F (23 °C)**

### Water solubility
- **Note: soluble**

### Partition coefficient: n-octanol/water
- **No data available**

### Viscosity, dynamic
- **No data available**

### Viscosity, kinematic
- **> 20.5 mm2/s at 104 °F (40 °C)**

### Relative vapor density
- **No data available**

### Evaporation rate
- **No data available**

### Burning rate
- **No data available**

### Volatile organic compounds (VOC) content
- **353 g/l**

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### 10. Stability and reactivity

**Reactivity**: No dangerous reaction known under conditions of normal use.
Chemical stability: The product is chemically stable.
Possibility of hazardous reactions: Stable under recommended storage conditions.
Conditions to avoid: No data available
Incompatible materials: No data available

11. Toxicological information

**Acute toxicity**
Not classified based on available information.

**Ingredients:**

**2-aminoethanol:**
- Acute oral toxicity: LD50 Oral (Rat): 1,720 mg/kg
- Acute dermal toxicity: LD50 Dermal (Rabbit): 1,025 mg/kg

**tributyl phosphate:**
- Acute oral toxicity: LD50 Oral (Rat): 1,553 mg/kg
- Acute dermal toxicity: LD50 Dermal (Rabbit): 3,100 mg/kg

**Skin corrosion/irritation**
Causes severe burns.

**Serious eye damage/eye irritation**
Causes serious eye damage.

**Respiratory or skin sensitization**
Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.

**Germ cell mutagenicity**
Not classified based on available information.

**Reproductive toxicity**
Not classified based on available information.

**STOT-single exposure**
Not classified based on available information.

**STOT-repeated exposure**
Not classified based on available information.

**Aspiration toxicity**
Not classified based on available information.

**Carcinogenicity**
Suspected of causing cancer.

**IARC**
Not applicable

**NTP**
Not applicable
12. Ecological information

Other information
Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Component:

Component: Tributyl phosphate 126-73-8

Toxicity to daphnia and other aquatic invertebrates:
EC50
Species: Daphnia magna (Water flea)
Dose: 1.8 mg/l
Exposure time: 48 h

13. Disposal considerations

Disposal methods

Waste from residues: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number 3267
Description of the goods Corrosive liquid, basic, organic, n.o.s. (2-aminoethanol)
Class 8
Packing group II
Labels 8
Emergency Response 153
Guidebook Number

IATA

UN number 3267
Description of the goods Corrosive liquid, basic, organic, n.o.s. (2-aminoethanol)
Class 8
Packing group II
Labels 8
Packing instruction (cargo aircraft) 855
Packing instruction 851
| (passenger aircraft) Packing instruction | Y840 |
| (passenger aircraft) | |

**IMDG**
- **UN number**: 3267
- **Description of the goods**: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-aminoethanol)
- **Class**: 8
- **Packing group**: II
- **Labels**: 8
- **EmS Number 1**: F-A
- **EmS Number 2**: S-B
- **Marine pollutant**: no

**DOT**: For Limited Quantity exceptions reference 49 CFR 173.154 (b)
**IMDG**: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

**Special precautions for user**
- No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
- Not applicable

### 15. Regulatory information

**TSCA list**: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

**EPCRA - Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**
- This material does not contain any components with a CERCLA RQ.

**SARA304 Reportable Quantity**
- This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards**
- Skin corrosion or irritation
- Serious eye damage or eye irritation
- Carcinogenicity

**SARA 302**
- This material does not contain any components with a section 302 EHS TPQ.

**SARA 313**
- This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
10. Other information

HMIS Classification

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

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