

**SECTION 1. IDENTIFICATION**

Product name : Sika® FerroGard®-908

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

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Flammable liquids : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

**GHS label elements**

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.



P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

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.

**Disposal:**

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

**Additional Labeling**

There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Mixtures****Components**

| Chemical name         | CAS-No.  | Classification                                                                                              | Concentration (% w/w) |
|-----------------------|----------|-------------------------------------------------------------------------------------------------------------|-----------------------|
| 2-diethylaminoethanol | 100-37-8 | Flam. Liq. 3; H226<br>Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Corr. 1B; H314 | $\geq 1 - < 5$        |

Actual concentration is withheld as a trade secret

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**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.



|                                                             |                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | Consult a physician.<br>Show this material safety data sheet to the doctor in attendance.                                                                                                                                                           |
| If inhaled                                                  | : Move to fresh air.<br>Consult a physician after significant exposure.                                                                                                                                                                             |
| In case of skin contact                                     | : Take off contaminated clothing and shoes immediately.<br>Wash off with soap and plenty of water.<br>If symptoms persist, call a physician.                                                                                                        |
| In case of eye contact                                      | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                                                                |
| If swallowed                                                | : Clean mouth with water and drink afterwards plenty of water.<br>Do not induce vomiting without medical advice.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>Obtain medical attention. |
| Most important symptoms and effects, both acute and delayed | : irritant effects<br>Excessive lachrymation<br>Erythema<br>Dermatitis<br>Causes skin irritation.<br>Causes serious eye irritation.                                                                                                                 |
| Notes to physician                                          | : Treat symptomatically.                                                                                                                                                                                                                            |

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**SECTION 5. FIRE-FIGHTING MEASURES**

|                                                |                                                                                                                                                                                                                                                                           |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical                                                                                                                                                                                             |
| Unsuitable extinguishing media                 | : Water<br>High volume water jet                                                                                                                                                                                                                                          |
| Specific hazards during fire fighting          | : Do not use a solid water stream as it may scatter and spread fire.                                                                                                                                                                                                      |
| Further information                            | : Use water spray to cool unopened containers.<br>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>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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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Deny access to unprotected persons.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.  
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 : 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).

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Use explosion-proof equipment.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Take precautionary measures against electrostatic discharges.
- Advice on safe handling : Do not breathe vapors or spray mist.  
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.  
Take precautionary measures against static discharge.  
Open drum carefully as content may be under pressure.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).  
Follow standard hygiene measures when handling chemical products.
- Conditions for safe storage : Store in original container.  
Keep in a 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 : Explosives  
Oxidizing agents  
Poisonous gases  
Poisonous liquids



Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

| Components            | CAS-No.  | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis    |
|-----------------------|----------|----------------------------------|------------------------------------------------|----------|
| 2-diethylaminoethanol | 100-37-8 | TWA                              | 2 ppm                                          | ACGIH    |
|                       |          | TWA                              | 10 ppm<br>50 mg/m <sup>3</sup>                 | OSHA Z-1 |
|                       |          | TWA                              | 10 ppm<br>50 mg/m <sup>3</sup>                 | OSHA P0  |

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

### Occupational exposure limits of decomposition products

| Components | CAS-No. | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis    |
|------------|---------|----------------------------------|------------------------------------------------|----------|
| ethanol    | 64-17-5 | TWA                              | 1,000 ppm<br>1,900 mg/m <sup>3</sup>           | OSHA Z-1 |
|            |         | TWA                              | 1,000 ppm<br>1,900 mg/m <sup>3</sup>           | OSHA P0  |

**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.  
The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive 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**  
**Remarks** : 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.                                                                                                                                                                                                                                                                              |
| 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.<br>Wash hands before breaks and immediately after handling the product.<br>Remove respiratory and skin/eye protection only after vapors have been cleared from the area.<br>Remove contaminated clothing and protective equipment before entering eating areas.<br>Wash thoroughly after handling. |

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                                  |                                          |
|--------------------------------------------------|------------------------------------------|
| Appearance                                       | : liquid                                 |
| Color                                            | : colorless                              |
| Odor                                             | : very faint                             |
| Odor Threshold                                   | : No data available                      |
| pH                                               | : ca. 6 (68 °F / 20 °C)                  |
| Melting point/range / Freezing point             | : No data available                      |
| Boiling point/boiling range                      | : No data available                      |
| Flash point                                      | : 108 °F / 42 °C<br>(Method: closed cup) |
| Evaporation rate                                 | : No data available                      |
| Flammability (solid, gas)                        | : No data available                      |
| Upper explosion limit / Upper flammability limit | : No data available                      |
| Lower explosion limit / Lower flammability limit | : No data available                      |
| Vapor pressure                                   | : 0.06 hpa                               |
| Relative vapor density                           | : No data available                      |



|                                          |   |                                            |
|------------------------------------------|---|--------------------------------------------|
| Density                                  | : | ca. 0.88 g/cm <sup>3</sup> (68 °F / 20 °C) |
| Solubility(ies)                          |   |                                            |
| Water solubility                         | : | insoluble                                  |
| Solubility in other solvents             | : | No data available                          |
| Partition coefficient: n-octanol/water   | : | No data available                          |
| Autoignition temperature                 | : | 484 °F / 251 °C                            |
| Decomposition temperature                | : | No data available                          |
| Viscosity                                |   |                                            |
| Viscosity, dynamic                       | : | No data available                          |
| Viscosity, kinematic                     | : | > 20.5 mm <sup>2</sup> /s                  |
| Explosive properties                     | : | No data available                          |
| Oxidizing properties                     | : | No data available                          |
| Volatile organic compounds (VOC) content | : | 327 g/l                                    |

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## SECTION 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.<br>Vapors may form explosive mixture with air. |
| Conditions to avoid                | : | Heat, flames and sparks.                                                                    |
| Incompatible materials             | : | No data available                                                                           |
| Hazardous decomposition products   | : | ethanol<br>Decomposes in contact with water.                                                |

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## SECTION 11. TOXICOLOGICAL INFORMATION

Not classified based on available information.

### **Skin corrosion/irritation**

Causes skin irritation.

### **Serious eye damage/eye irritation**

Causes serious eye irritation.



**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.

**Carcinogenicity**

Not classified based on available information.

**IARC** Not applicable

**OSHA** Not applicable

**NTP** Not applicable

**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.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

Additional ecological 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.





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**SECTION 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.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

- Remarks : Not classified as supporting combustion according to the transport regulations.

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**SECTION 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.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

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

- SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Serious eye damage or eye irritation



**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.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**California Prop 65** : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

|                |   |                                                                                  |
|----------------|---|----------------------------------------------------------------------------------|
| ACGIH          | : | USA. ACGIH Threshold Limit Values (TLV)                                          |
| OSHA P0        | : | USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000                    |
| OSHA Z-1       | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| ACGIH / TWA    | : | 8-hour, time-weighted average                                                    |
| OSHA P0 / TWA  | : | 8-hour time weighted average                                                     |
| OSHA Z-1 / TWA | : | 8-hour time weighted average                                                     |

**Notes to Reader**

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