SAFETY DATA SHEET

1. Identification

Product identifier FGS Concrete Conditioner
Other means of identification None.
Recommended use Concrete cleaner.
Recommended restrictions None known.

<table>
<thead>
<tr>
<th>Manufacturer:</th>
<th>Importer/ Supplier/ Distributor information:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATICRETE International.</td>
<td>LATICRETE Middle East LLC</td>
</tr>
<tr>
<td>1 Laticrete Park N. Bethany CT 06524</td>
<td>P.O. Box. 86028, Ras Al Khaimah, United Arab Emirates</td>
</tr>
<tr>
<td>PHONE:203-393-0010 Chemtrec 1.800.424.9300</td>
<td>Phone : +971 7 244 6396</td>
</tr>
<tr>
<td></td>
<td>Contact Person : Mohamed Rafiq, M</td>
</tr>
</tbody>
</table>

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards
- Skin corrosion/irritation Category 2
- Serious eye damage/eye irritation Category 1
- Carcinogenicity Category 2
- Specific target organ toxicity, repeated exposure Category 2 (Kidney, liver)

OSHA defined hazards Not classified.

Label elements

Signal word Danger
Hazard statement Causes skin irritation. Causes serious eye damage. Suspected of causing cancer. May cause damage to organs (Kidney, liver) through prolonged or repeated exposure.

Precautionary statement

Prevention
Do not breathe mist or vapor. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response
If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If exposed or concerned: Get medical advice/attention.

Storage Store locked up.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Dodecylbenzenesulfonic acid</td>
<td>121-65-3</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Alcohol C11, ethoxylated</td>
<td>127036-24-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Diethanolamine</td>
<td>111-42-2</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. First-aid measures

**Inhalation**
Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**
Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye contact**
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion**
Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**
Permanent eye damage including blindness could result. Irritant effects. Prolonged exposure may cause chronic effects.

**Indication of immediate medical attention and special treatment needed**
Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

**General information**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: get medical attention/advice.

5. Fire-fighting measures

**Suitable extinguishing media**
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media**
Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**
During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**
In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**General fire hazards**
No unusual fire or explosion hazards noted.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and cleaning up**
Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions**
Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

**Precautions for safe handling**
Avoid contact with skin, eyes and clothing. Avoid breathing mist or vapor. Do not handle until all safety precautions have been read and understood. Provide adequate ventilation. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**
Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials.
8. Exposure controls/personal protection

Occupational exposure limits
ACGIH

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine (CAS 111-42-2)</td>
<td>STEL</td>
<td>0.2 ppm</td>
<td>Inhalable fraction and vapor.</td>
</tr>
</tbody>
</table>

ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine (CAS 111-42-2)</td>
<td>TWA</td>
<td>1 mg/m3</td>
<td>Inhalable fraction and vapor.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine (CAS 111-42-2)</td>
<td>TWA</td>
<td>15 mg/m3</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation
Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation
Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection
Wear appropriate chemical resistant gloves.

Other
Wear appropriate chemical resistant clothing.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance
Medium blue liquid.

Physical state
Liquid.

Form
Liquid.

Color
Medium blue.

Odor
Cherry

Odor threshold
Not available.

pH
8 - 9

Melting point/freezing point
Not applicable.

Initial boiling point and boiling range
212 °F (100 °C)

Flash point
Not available.

Evaporation rate
Not applicable.

Flammability (solid, gas)
Not available.
Upper/lower flammability or explosive limits

| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |

Vapor pressure

Not applicable.

Vapor density

Not applicable.

Relative density

1.05

Solubility(ies)

| Solubility (water) | Soluble in water. |
| Partition coefficient (n-octanol/water) | Not available. |

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Nitrogen oxides.

11. Toxicological information

Information on likely routes of exposure

| Inhalation | In high concentrations, vapors may be irritating to the respiratory system. |
| Skin contact | Irritating to skin. |
| Eye contact | Causes serious eye damage. |
| Ingestion | May cause discomfort if swallowed. |

Symptoms related to the physical, chemical and toxicological characteristics

Permanent eye damage including blindness could result. Irritant effects.

Information on toxicological effects

| Acute toxicity | May cause discomfort if swallowed. |

Components | Species | Test Results
--- | --- | ---
Alcohol C11, ethoxylated (CAS 127036-24-2) |  |  |
Acute |  |  |
Oral | Rat | 1400 mg/kg |
LD50 |  |  |
Diethanolamine (CAS 111-42-2) |  |  |
Acute |  |  |
Dermal |  |  |
LD50 | Rabbit | 11.9 ml/kg |
Oral |  |  |
LD50 | Rat | 710 mg/kg |
Skin corrosion/irritation | Causes skin irritation. |
Serious eye damage/eye irritation | Causes serious eye damage. |
Respiratory or skin sensitization | Respiratory sensitization | No data available. |
Skin sensitization  No data available.
Germ cell mutagenicity  No data available.
Carcinogenicity  Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity
Diethanolamine (CAS 111-42-2)  2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Reproductive toxicity  This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure  No data available.
Specific target organ toxicity - repeated exposure  May cause damage to organs (Kidney, liver) through prolonged or repeated exposure.
Aspiration hazard  No data available.
Chronic effects  Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity

Components  Species  Test Results
Diethanolamine (CAS 111-42-2)  
Aquatic  
Crustacea  EC50  Water flea (Ceriodaphnia dubia)  61.8 - 86.04 mg/l, 48 hours
Fish  LC50  Fathead minnow (Pimephales promelas)  >= 100 mg/l, 96 hours

Persistence and degradability  No data is available on the degradability of this product.
Bioaccumulative potential  No data available for this product.
Partition coefficient n-octanol / water (log Kow)  
Diethanolamine (CAS 111-42-2)  -1.43

Mobility in soil  Not available.
Mobility in general  The product is soluble in water.
Other adverse effects  The product contains a substance which is harmful to aquatic organisms.

13. Disposal considerations

Disposal instructions  Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code  The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products  Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging  Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT  Not regulated as dangerous goods.
IATA  Not regulated as dangerous goods.
IMDG  Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  Not available.
15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)
- 4-Dodecylbenzenesulfonic acid (CAS 121-65-3) LISTED
- Diethanolamine (CAS 111-42-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine</td>
<td>111-42-2</td>
<td>1 - 5</td>
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</tbody>
</table>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
- Diethanolamine (CAS 111-42-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations

US - Massachusetts RTK - Substance List
- 4-Dodecylbenzenesulfonic acid (CAS 121-65-3)
- Diethanolamine (CAS 111-42-2)

US - New Jersey Worker and Community Right-to-Know Act
- 4-Dodecylbenzenesulfonic acid (CAS 121-65-3)
- Diethanolamine (CAS 111-42-2)

US - Pennsylvania Worker and Community Right-to-Know Law
- 4-Dodecylbenzenesulfonic acid (CAS 121-65-3)
- Diethanolamine (CAS 111-42-2)

US - Rhode Island RTK
- 4-Dodecylbenzenesulfonic acid (CAS 121-65-3)
- Diethanolamine (CAS 111-42-2)

US - California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
- Diethanolamine (CAS 111-42-2)

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
</tbody>
</table>
### Country(s) or region  
### Inventory name  
### On inventory (yes/no)*
<table>
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<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Issue date</th>
<th>24-June-2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>-</td>
</tr>
<tr>
<td>Version #</td>
<td>01</td>
</tr>
</tbody>
</table>

**NFPA ratings**

![NFPA ratings diagram]

**References**

- HSDB® - Hazardous Substances Data Bank
- Registry of Toxic Effects of Chemical Substances (RTECS)

**Disclaimer**

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