1. IDENTIFICATION

Product identifier
Product Name
Lythic™ Protector - Concrete Clear Sealer

Other means of identification
Product Code
LY PROTECTOR

Recommended use of the chemical and restrictions on use
Recommended Use
For industrial use

Details of the supplier of the safety data sheet
Supplier Address
Solomon Colors, Inc.
4050 Color Plant Road
Springfield, IL
62702

Manufacturer Address
Solomon Colors, Inc.
4050 Color Plant Road
Springfield, IL
62702

Company Phone Number
800-624-0261 (US & Canada); 217-522-3112 (Outside North America)

24 Hour Emergency Phone Number
800-373-7542

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Skin irritation Category 2  H315
Eye irritation Category 2A  H319

2.2 Label elements
Statutory basis
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Symbol(s)

Signal word
Warning

Hazard statement
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Precautionary statement: Prevention
P264 - Wash skin thoroughly after handling.
P280 - Wear eye protection/ face protection.
P280 - Wear protective gloves.
Precautionary statement:
P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap.
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.

2.3 Other hazards
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>&lt;= 65%</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>7732-18-5</td>
</tr>
<tr>
<td>Remarks</td>
<td>Not a hazardous substance or mixture.</td>
</tr>
<tr>
<td>Silicon dioxide, amorphous</td>
<td>&lt; 2%</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>7631-86-9</td>
</tr>
<tr>
<td>Remarks</td>
<td>Not a hazardous substance or mixture.</td>
</tr>
<tr>
<td>2-aminoethanol</td>
<td>1%</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>141-43-5</td>
</tr>
<tr>
<td>Acute toxicity (Oral)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity (Dermal)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Serious eye damage</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation
If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

Skin contact
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly wash clothing, shoes and protective equipment before reuse or discard. Get medical attention if irritation develops or persists.

Eye contact
Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

Ingestion
If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

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

Symptoms
None known

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

None known.

Hazards
None known.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:
Water spray, foam, CO2, dry powder., Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media:
Do not use full-force water jet in order to avoid dispersal and spread of the fire.
5.2. Special hazards arising from the substance or mixture
None known.
The product itself does not burn.

5.3. Advice for firefighters
As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment.

6.2. Environmental precautions
Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

6.3. Methods and material for containment and cleaning up
Absorb spill with inert material, then place in a chemical waste container.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Do not swallow product. Keep container tightly closed. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. FOR INDUSTRIAL USE ONLY General mechanical room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment. Local ventilation is needed in the presence of airborne mists.

7.2. Conditions for safe storage, including any incompatibilities
Storage
Keep containers tightly closed in a dry, cool place.
Further information
Product may freeze if stored below 32°F. Product damage will occur if frozen.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Silicon dioxide, amorphous</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
</tbody>
</table>

The exposure limit is calculated from the equation, \( \frac{80}{\% \text{SiO}_2} \), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.

8.2. Exposure controls

Personal protective equipment

Respiratory protection
A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH’s “Respirator Decision Logic” may be useful in determining the suitability of various types of respirators.

Hand protection
Use impermeable gloves.

The rupture time and material thickness data are guideline values! Exact rupture time / material thickness data can be obtained from the protective glove manufacturer. Suitability for specific workplaces should be clarified with protective glove manufacturers. The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use. Use impermeable gloves.
Skin and body protection
A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures
To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before re-use.

Protective measures
Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>milky-white</td>
</tr>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>mild</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>pH</td>
<td>9 - 10</td>
</tr>
<tr>
<td>Freezing point</td>
<td>0 °C</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Will not flash</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>no data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>23.33 hPa (20 °C)</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>similar to water</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.01 - 1.03</td>
</tr>
<tr>
<td>Water solubility</td>
<td>no data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>&gt; 2000 °C</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>no data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>no data available</td>
</tr>
</tbody>
</table>

9.2. Other information
no data available

10. STABILITY AND REACTIVITY

10.1. Reactivity
Stable under recommended storage conditions.

10.2. Chemical stability
No dangerous reaction known under conditions of normal use.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
See Sect. 10.1 Reactivity.

10.4. Conditions to avoid
Do not mix with other material unless advised by supplier. Freezing conditions will damage product.

10.5. Incompatible materials
Acidic, Cationic, and salt materials may gel the product
10.6. Hazardous decomposition products
None known.
Stable under normal conditions. Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Acute oral toxicity
Acute toxicity estimate: > 5000 mg/kg
Method: Calculation method

Acute dermal toxicity
Acute toxicity estimate: > 5000 mg/kg
Method: Calculation method

Carcinogenicity assessment
Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

Further information
No toxicological tests have been conducted with the product itself.

Toxicological information on components
Silicon dioxide, amorphous
Acute oral toxicity
LD50 Rat: > 31600 mg/kg

Acute dermal toxicity
LD50 Rabbit: > 2000 mg/kg

12. ECOLOGICAL INFORMATION

12.1. Toxicity
No ecotoxicological data is available for this product.

Toxicity in aquatic invertebrates
EC50 Daphnia magna: > 10000 mg/l / 24 h
Test substance: Silicon dioxide, derived from chemical synthesis
Method: OECD 202

Toxicity to algae
IC50 Desmodesmus subspicatus (green algae): > 10000 mg/l / 72 h
Test substance: Silicon dioxide, derived from chemical synthesis
Method: OECD 201

12.2. Persistence and degradability
Biodegradability
Inorganic product, Test of the biodegradability cannot be carried out.

12.3. Bioaccumulative potential
Bioaccumulation
Not to be expected.

12.4. Mobility in soil
Mobility
No remarkable mobility in soil is to be expected.

12.5. Other adverse effects
Further Information
The data we have at our disposal do not necessitate identification concerning environmental hazard.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Product
Waste must be disposed of in accordance with federal, state, provincial and local regulations.
Since empty containers retain product residue, follow MSDS and label warnings even after container is emptied.

Uncleaned packaging
Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.
14. TRANSPORT INFORMATION

Not dangerous according to transport regulations.

14.1. UN number:  --
14.2. UN proper shipping name: --
14.3. Transport hazard class(es): --
14.4. Packing group: --
14.5 Environmental hazards (Marine pollutant): --
14.6. Special precautions for user: Yes
Not dangerous according to transport regulations.

15. REGULATORY INFORMATION

US Federal Regulations
OSHA
If listed below, chemical specific standards apply to the product or components:
• None listed

Clean Air Act Section (112)
If listed below, components present at or above the de minimus level are hazardous air pollutants:
• None listed

CERCLA Reportable Quantities
If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:
• None listed

SARA Title III Section 311/312 Hazard Categories
The product meets the criteria only for the listed hazard classes:
• Acute Health Hazard

SARA Title III Section 313 Reportable Substances
If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
• None listed

Toxic Substances Control Act (TSCA)
If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:
• None listed

State Regulations
California Proposition 65
A warning under the California Drinking Water Act is required only if listed below:
• None listed
An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

HMIS Ratings
Health : 2
Flammability : 0
Physical Hazard : 0

NFPA Ratings
Health : 2
Flammability : 0
Reactivity : 0
16. OTHER 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.

End of Safety Data Sheet