



SAFETY DATA SHEET

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LY PROTECTOR

Lythic™ Protector - Concrete Clear Sealer

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:
Reaction

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

• Water	<= 65%
CAS-No.	7732-18-5
Remarks	Not a hazardous substance or mixture.
• Silicon dioxide, amorphous	< 2%
CAS-No.	7631-86-9
Remarks	Not a hazardous substance or mixture.
• 2-aminoethanol	1%
CAS-No.	141-43-5
Acute toxicity (Oral)	Category 4
Acute toxicity (Dermal)	Category 4
Skin corrosion	Category 1B
Serious eye damage	Category 1

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

• Silicon dioxide, amorphous

CAS-No.	7631-86-9	
Control parameters	20millions of particles per cubic foot of air	Time Weighted Average (TWA):(Z3)
Control parameters	0.8 mg/m3	Time Weighted Average (TWA):(Z3)
	The exposure limit is calculated from the equation, $80/(\%SiO_2)$, using a value of 100% SiO_2 . Lower values of % SiO_2 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

Physical state	liquid
Colour	milky-white
Form	liquid
Odour	mild
Odour Threshold	no data available
pH	9 - 10
Freezing point	0 °C
Boiling point/range	100 °C
Flash point	Will not flash
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	23.33 hPa (20 °C) similar to water
Relative vapour density	no data available
Relative density	1.01 - 1.03
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Autoignition temperature	no data available
Thermal decomposition	> 2000 °C
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available

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

IC 50 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