

## IDENTIFICATION

**PRODUCT NAME:** ADHL-DENSIFIER

**MANUFACTURER/SUPPLIER:** Adhesiveslab 235 Rayette Rd, Unit #4 Concord, Ontario Canada L4K 2G1 24  
**HOUR EMERGENCY NUMBER:** 1-800-340-7697  
**APPLICATION AND USE:** Spray / roller applied liquid penetrating concrete hardener.  
**PRODUCT DESCRIPTION:** Aqueous solution of Potassium Lithium Silicate.

## HAZARDS IDENTIFICATION

**GHS CLASSIFICATION**

-Eye irritation: Category 1

**SIGNAL WORD** .....  
**WARNING**



**HAZARD STATEMENTS**

-H302 Harmful if swallowed  
-H315 Causes skin irritation  
-H320 Causes eye irritation

## PRECAUTIONARY STATEMENTS

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**PREVENTION**

P102 Keep out of reach of children  
P262 Do not get in eyes, on skin or on clothing  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P264 Wash hands thoroughly after handling.

**RESPONSE**

P303+P361+P353: IF ON SKIN (or hair): Remove/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

**OTHER HAZARDS**

Spilled material may be slippery. Dries to form a glass film which may cut skin.

## COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	C.AS. #	LD/50, Route, Species	LC/50, Route, Species
Silicic acid, Potassium Salt; Potassium Silicate	5 - 10	1312-76-1	Not Established	Not Established
Silicic acid, Lithium Salt; Lithium Silicate	1 - 3	12627-14-4	Not Established	Not Established

## SAFETY DATA SHEET

**FIRST-AID MEASURES****EYE CONTACT**

Flush eyes promptly with plenty of running water, continuing at least 15 minutes with eyelids held open. Get medical attention if eye irritation occurs.

**SKIN CONTACT**

Remove contaminated clothing. Wash with plenty of running water.

**INHALATION**

Avoid breathing mist. May cause respiratory irritation. If irritation occurs, move to a fresh air environment. Seek medical attention if irritation continues.

**INGESTION**

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

**MOST IMPORTANT SYMPTOMS/ EFFECTS****ACUTE OR DELAYED**

Alkaline solution. Can cause eye irritation.

**IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT NEEDED**

Obtain immediate medical attention, treat symptomatically.

## FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA**

This material is compatible with all extinguishing media.

**UNSUITABLE EXTINGUISHING MEDIA**

No information available.

**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE/ MIXTURE**

This product will not cause or support fire under normal conditions of use.

**HAZARDOUS COMBUSTION PRODUCTS**

None known.

**FIRE-FIGHTERS PROTECTIVE EQUIPMENT**

In a fire wear full protective gear including a self-contained breathing apparatus.

**SPECIAL FIRE-FIGHTING PROCEDURES**

None.

**ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Wear suitable goggles and protective clothing Avoid contact with skin and eyes.  
Danger of slipping on spilled product.

**ENVIRONMENTAL PRECAUTIONS**

Prevent entry into sewers or streams, dike if needed. Consult local authorities.

**CLEAN-UP METHODS**

Remove with liquid-absorbing material, for example sand. Remove last traces by diluting with plenty of (warm) water.

**HANDLING AND STORAGE****PRECAUTIONS FOR SAFE HANDLING**

Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills. **CAUTION:** Can etch glass if not promptly removed.

**CONDITIONS FOR SAFE STORAGE**

Keep packaging/ storage vessel closed when not in use. Store the product in plastic containers. Do not store in aluminum, steel, fibreglass, copper, brass, zinc or galvanized containers. Store below 50°C. Protect from freezing.

**EXPOSURE CONTROLS / PERSONAL PROTECTION****OCCUPATIONAL EXPOSURE LIMITS**

None of the components have assigned exposure limits. **ENGINEERING CONTROLS:**

**OTHER/TYPE**

Portable eyewash fountain and a safety shower should be available to the work area vicinity.

**PROTECTIVE EQUIPMENT:**

**EYE / TYPE**

Wear chemical splash goggles when handling this product.

#### RESPIRATORY PROTECTION

Use a NIOSH-approved dust and mist respirator where spray mist occurs. Observe OSHA regulations for respirator use

#### GLOVES/TYPE

Wear suitable gloves, e.g., PVC or nitrile rubber.

#### CLOTHING/TYPE

Use a lab coat or apron as necessary to minimize skin contact.

### PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE .....	Liquid
APPEARANCE.....	Clear low viscosity liquid
ODOUR .....	None
ODOUR TRESHOLD .....	Not available.
pH LEVEL .....	10.0 -12.0 @ 21°C (69.8°F)
FREEZING POINT .....	< 0°C (32°F)
BOILING POINT .....	> 100°C (>212°F)
AUTOIGNITION TEMPERATURE .....	Not applicable
FLASH POINT .....	Not applicable
VAPOUR PRESSURE (mmHg @ 20°C (68°F) .....	Not available
VAPOUR DENSITY (AIR=1).....	Not applicable
SPECIFIC GRAVITY @ 20°C (68°F) .....	1.08
SOLUBILITY IN WATER .....	Complete
EVAPORATION RATE (N-BuAc=1).....	Not applicable
V.O.C. CONTENT .....	0 gms/ L

### STABILITY AND REACTIVITY

#### REACTIVITY

Non-reactive under normal conditions.

#### CHEMICAL STABILITY

The product is chemically stable.

#### POSSIBLE HAZARDOUS REACTIONS

Hazardous polymerization will not occur.

#### CONDITIONS TO AVOID

Avoid contamination with acids, will generate exothermic reactions.

#### INCOMPATIBLE MATERIALS

Avoid contact with Zinc, Tin, Aluminum, Copper and their alloys. Separate from acids, reactive metals, and ammonium salts.

HAZARDOUS DECOMPOSITION PRODUCTS  
Hydrogen gas.

## TOXICOLOGICAL INFORMATION

**ACUTE ORAL TOXICITY (LD50)**  
Refer to Section 3

**CARCINOGENICITY OF MATERIAL**  
This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

**TERATOGENICITY**  
Not available.

**MUTAGENICITY**  
Not available.

**REPRODUCTIVE EFFECTS**  
Not available.

**ROUTES OF EXPOSURE:**  
**SYMPTOMS AND EFFECTS:**

**EYE CONTACT**  
Causes eye irritation.

**SKIN CONTACT**  
Frequent or prolonged contact may irritate the skin, low toxicity.

**INHALLATION**  
Nose and throat mucosal irritation.

**INGESTION**  
Repeated ingestion or ingestion of large doses of soluble lithium compounds during pregnancy is reported to cause fetus abnormalities. Frequent ingestion over extended periods of time of gram quantities of silicates is associated with the formation kidney stones and other siliceous urinary calculi in humans.

## ECOLOGICAL INFORMATION

**ECOTOXICITY**  
No data available for lithium silicate compounds. However, the pH of most undiluted silicate solutions is above acceptable limits for direct discharge into waterbodies.

**PERSISTENCE AND DEGRADABILITY**  
No data available.

**BIOACCUMULATIVE POTENTIAL**  
Inorganic. The substance has no potential for bioaccumulation.

MOBILITY IN THE SOIL  
No data available.

## TRANSPORTATION INFORMATION

### Domestic/International Regulation

#### TDG

Not Regulated

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.