Safety Data Sheet

PRO-PEL LITHIUM Ready to Use

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product Name PRO-PEL LITHIUM Ready to Use

Lithium silicate solution

Alternative names Lithium silicate solution

CAS No. 12627-14-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) Industrial use only.

Uses advised against Do not use on unclean or unsound concrete.

1.3 Details of the supplier of the safety data sheet

Company Identification Cornerstone Industrial Consulting Ltd.

P.O. Box 479 1 Mile North Bruno, SK S0K 0S0 CANADA

Telephone: CANADA

E-Mail (competent person) 1.866.878.7069 1.306.369.2521

1.4 Emergency telephone number

Emergency Phone No. 1.306.369.2521

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification (anticipated)

Skin Irrit. 2 Eye Irrit. 2

Hazards summary Alkaline.

Irritating to eyes and skin. Caution - spillages may be slippery.

2.2 Label elements

Hazard pictogram(s)



Signal word(s) Warning

Hazard statement(s) H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary statement(s) P262: Do not get in eyes, on skin, or on clothing.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

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.

2.3 Other hazards Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Regulation (EC) No. 1272/2008 (CLP)

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Ingredient(s)	%W/W	CAS No.	EINECS No. /	Hazard symbol(s) and
			REACH Registration	hazard statement(s)
Lithium silicate	5-15	12627-14-4	235-730-0	H315: Skin Irrit. 2
			Pre-registered	H319: Eye Irrit. 2
				H335: STOT SE 3

EC Classification No. 67/548/EEC

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact Irrigate with eyewash solution or clean water, holding the eyelids

apart, for at least 15 minutes. Obtain immediate medical

attention.

Skin Contact Wash affected skin with plenty of water. If symptoms develop,

obtain medical attention.

Inhalation Remove patient from exposure, keep warm and at rest. Obtain

medical attention.

Ingestion Do not induce vomiting. Wash out mouth with water and give

200-300 ml (half a pint) of water to drink. Obtain medical

Compatible with all standard fire fighting techniques.

attention.

4.2 Most important symptoms

and effects, both acute and

delayed

Alkaline.

Irritating to eyes and skin.

4.3 Indication of any immediate medical attention and special

treatment needed

Obtain immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Unsuitable extinguishing Media

5.2 Special hazards arising from

the substance or mixture

Not applicable. Aqueous solution. Non-combustible.

None known.

5.3 Advice for fire-fighters

None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Wear eye/face protection.

6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses. Advise Authorities if spillage has entered water course or sewer or has

contaminated soil or vegetation.

6.3 Methods and materials for containment and cleaning up

Caution - spillages may be slippery. Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a

container for disposal or recovery.

6.4 Reference to other sections

See also Section 8

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with eyes, skin and clothing.

Avoid generation of mist. Provide adequate ventilation. Emergency shower and eye wash facilities should be readily

available.

See Also Section 8.

Wear protective equipment to comply with good occupational

hygiene practice.

Do not eat, drink or smoke at the work place.

7.2 Conditions for safe storage, including any incompatibilities

Keep at a temperature not exceeding (°C): 50 .

Do not allow material to freeze.

Provide an adequate bund wall.

Unsuitable containers: Aluminium See Also Section 10.

7.3 Specific end use(s) Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits		
Lithium silicate	No Occupational Exposure Limit assigned.		
	An exposure limit of 1 mg/m3 (15 min TWA) is recommended by analogy		
	with lithium hydroxide (UK EH40).		

8.2 Exposure controlsWear protective equipment to comply with good occupational

hygiene practice. Do not eat, drink or smoke at the work place.

8.2.1 Appropriate engineering

controls

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of

process conditions.

8.2.2 Personal Protection

Respiratory protection Respiratory protection not normally required. Advice on

respiratory protective equipment is given in the HSE (Health and

Safety Executive) publication HS(G)53.

Eye/face protection

Skin protection

Chemical goggles (EN 166).

Wear suitable protective clothing and gloves. Plastic or rubber

gloves. For example EN374-3, level 6 breakthrough time

(>480min). Wear suitable overalls.

8.2.3 Environmental Exposure

Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Liquid. Colourless. **Appearance**

Odour Slight.

Odour Threshold (ppm) Not applicable.

10.16 pH (Value) -6 Freezing Point (°C)

Not applicable. Melting Point (°C)

Boiling Point (°C) 102°C

Flash Point (°C) [Closed cup] Not applicable. Not applicable. Evaporation rate Flammability (solid, gas) Not applicable. **Explosive Limit Ranges** Not applicable. Not applicable. Vapour Pressure (mm Hg) No data. Vapour Density (Air=1) Specific Gravity 1.050 Solubility (Water) Soluble Solubility (Other) No data. Auto Ignition Point (°C) Not applicable. Decomposition Temperature (°C) Not applicable. Viscosity (mPa. s) Not applicable. Explosive properties Not applicable. Oxidising Properties

VOC's

SECTION 10: STABILITY AND REACTIVITY

See Section: 10.3 10.1 Reactivity

10.2 Chemical stability Stable.

10.3 Possibility of hazardous

reactions

When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. This product will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.

10.4 Conditions to avoid See Section: 10.3 10.5 Incompatible materials See Section: 10.3 10.6 Hazardous decomposition None known.

product(s)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Inhalation

Ingestion Lithium compounds may damage the central nervous system. A

large dose may have the following effects: headache, nausea,

dizziness, convulsions, kidney damage. Mist is irritant to the respiratory tract.

Skin Contact Repeated and/or prolonged skin contact may cause slight

irritation.

Eye Contact Liquid or mist may cause discomfort and mild irritation.

Not applicable.

Skin corrosion/irritation Irritating to skin. Irritating to eyes. Serious eye damage/irritation Sensitisation Not sensitising.

No data. Mutagenicity

Carcinogenicity IARC, NTP, OSHA, ACGIH do not list this product or any

components thereof as known or suspected carcinogen.

Lithium compounds - teratogenic effects have been observed in Reproductive toxicity

laboratory animals.

Not classified. STOT - single exposure STOT - repeated exposure Not classified. **Aspiration hazard** Not classified.

Other information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Lithium compounds - no data.

12.2 Persistence and Inorganic. Soluble silicates, upon dilution, rapidly depolymerise degradability into molecular species indistinguishable from natural dissolved

silica.

12.3 Bioaccumulative potential Inorganic. The substance has no potential for bioaccumulation.

12.4 Mobility in soil Not applicable.

12.5 Results of PBT and vPvB Not classified as PBT or vPvB.

assessment

12.6 Other adverse effects The alkalinity of this material will have a local effect on

ecosystems sensitive to changes in pH.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Disposal should be in accordance with local, state or national

legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN numberNot applicable.14.2 Proper Shipping NameNot applicable.14.3 Transport hazard class(es)Not applicable.14.4 Packing groupNot applicable.

14.5 Environmental hazards Not classified as a Marine Pollutant.

14.6 Special precautions for user No special packaging requirements. Unsuitable containers:

Aluminium

14.7 Transport in bulk according to Annex II of MARPOL73/78 and

the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA Inventory Status: Reported/Included. AICS Inventory Status: Reported/Included. DSL/NDSL Inventory Status: Reported/Included.

German Water Hazard Classification VwVwS: Product ID number 1314, WGK class

1 (low hazard to water).

SARA TITLE III: This material is not a listed Toxic Chemical subject to the reporting

requirements of SARA Title III §313 and 40 C.F.R. Part 372. Hazard

Categories under SARA Title III §§311/312: Acute.

15.2 Chemical Safety Assessment Not available.

SECTION 16: OTHER INFORMATION

This SDS was last reviewed: SEPT 2018

EC Classification No. 67/548/EEC

Hazard Symbol Risk Phrases Safety Phrases **IRRITANT Xi**

R36/38: Irritating to eyes and skin.

S26: In case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

GHS Classification

(anticipated) Skin Irrit. 2 Eye Irrit. 2 Warning

Signal word(s)

Hazard pictogram(s)

Hazard statement(s) H315: Causes skin irritation.

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