SAFETY DATA SHEET

Li20 / SiO2 LITHIUM SILICATE (LS)45

Polysilicate

ASG Chemical Holdings, LLC. (ASG Chemie) Chemwatch: 5363-69 Version No: 7.1 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Chemwatch Hazard Alert Code: 2 Issue Date: 20/08/2021 Print Date: 06/08/2023 S.GHS.USA.EN

Lith

SECTION 1 Identification

Product Identifier

Product name	Lith, LITHIUM SILICATE (LS)45
Chemical Name	Lithium Polysilicate Silicate
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses Concrete Densifier, Binder, admixture. Use according to manufacturer's directions.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ASG Chemical Holdings {ASG Chemie}
Address	2603 NW 13th St. Florida 32609 United States
Telephone	+13524321481
Fax	Not Available
Website	www.asgchemie.com
Email	compliance@asgchemie.com

Emergency phone number

Association / Organisation	Chemwatch	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	1800951288	+1 855-237-5573
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01 Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3

	Toxicity - Single Exposure (Respiratory Tract Initiation) Category 3
Label elements	
Hazard pictogram(s)	
Signal word	Warning
Hazard statement(s)	
	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Hazard(s) not otherwise classified	
Not Applicable	
Precautionary statement(s) Prevention	
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.
Precautionary statement(s) Response	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
Precautionary statement(s) Storage	
 P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Precautionary	statement(s)	Disposal	

P501	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any
	local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
12627-14-4	<30	lithium polysilicate
Not Available	balance	Ingredients determined not to be hazardous
Not Available		includes
7732-18-5	<70	water

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures	
Eye Contact	If this product comes in contact with the eyes:
	Wash out immediately with fresh running water.
	 Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
	 Seek medical attention without delay; if pain persists or recurs seek medical attention.
	 Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:
	 Immediately remove all contaminated clothing, including footwear.
	Flush skin and hair with running water (and soap if available).
	 Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area.
	Lay patient down. Keep warm and rested.
	 Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
	 Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
	• Transport to hospital, or doctor, without delay.
Ingestion	If swallowed do NOT induce vomiting.
-	 If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
	Observe the patient carefully.
	 Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
	• Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
	Seek medical advice.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

	There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.		
Special hazards arising from the substrate or r			
Fire Incompatibility	None known.		
Special protective equipment and precautions	for fire-fighters		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. 		
	 Wear breathing apparatus plus protective gloves in the event of a fire. 		
	 Prevent, by any means available, spillage from entering drains or water courses. 		
	 Use fire fighting procedures suitable for surrounding area. 		
	 DO NOT approach containers suspected to be hot. 		
	 Cool fire exposed containers with water spray from a protected location. 		
	 If safe to do so, remove containers from path of fire. 		
	• Equipment should be thoroughly decontaminated after use.		
Fire/Explosion Hazard	Under certain conditions the material may become combustible because of the ease of ignition which occurs afte the material reaches a high specific area ratio (thin sections, fine particles, or molten states). However, the same material in massive solid form is comparatively difficult to Ignite. Nearly all metals will burn in air under certain conditions. Some are oxidised rapidly in the presence of air or moisture, generating sufficient heat to reach their ignition temperatures.		
	Others oxidise so slowly that heat generated during oxidation is dissipated before the metal becomes hot enough to ignite.		
	Particle size, shape, quantity, and alloy are important factors to be considered when evaluating metal combustibility. Combustibility of metallic alloys may differ and vary widely from the combustibility characteristics of the alloys' constituent elements.		
	Decomposition may produce toxic fumes of: silicon dioxide (SiO2) metal oxides May emit poisonous fumes. May emit corrosive fumes.		
SECTION 6 Accidental release measures Personal precautions, protective equipment ar See section 8	ad emergency procedures		
Environmental precautions See section 12			
Methods and material for containment and clea	aning up		
Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. 		
Major Spills	Moderate hazard.		
	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. 		
	 Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. 		

Personal Protective Equipment advice is contained in Section 8 of the SDS.

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SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	DO NOT allow clothing wet with material to stay in contact with skin
	Avoid all personal contact, including inhalation.
	Wear protective clothing when risk of exposure occurs.
	• Use in a well-ventilated area.
	Prevent concentration in hollows and sumps.
	DO NOT enter confined spaces until atmosphere has been checked.
	 DO NOT allow material to contact humans, exposed food or food utensils.
	Avoid contact with incompatible materials.
	When handling, DO NOT eat, drink or smoke.
	 Keep containers securely sealed when not in use.
	Avoid physical damage to containers.
	 Always wash hands with soap and water after handling.
	• Work clothes should be laundered separately. Launder contaminated clothing before re-use.
	Use good occupational work practice.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
	 Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	Store in original containers.
	Keep containers securely sealed.
	 No smoking, naked lights or ignition sources.
	• Store in a cool, dry, well-ventilated area.
	 Store away from incompatible materials and foodstuff containers.
	 Protect containers against physical damage and check regularly for leaks.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
onditions for safe storage, including any inco	mpatibilities
Suitable container	Polyethylene or polypropylene container.
	 Packing as recommended by manufacturer.
	Check all containers are clearly labelled and free from leaks.
torage incompatibility	
	 Avoid reaction with oxidising agents, bases and strong reducing agents.
	Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

• Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

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Control parameters			
Occupational Exposure Limits (OEL) INGREDIENT DATA	Not Available		
Emergency Limits			
Ingredient	TEEL-1	TEEL-2	TEEL-3
Xeolith LS 45 Lithium Silicate	Not Available	Not Available	Not Available
ngredient	Original IDLH	Revised IDLH	
lithium polysilicate	Not Available	Not Available	
water	Not Available	Not Available	
Occupational Exposure Banding			
Ingredient	Occupational Exposure Band Rating	o Occupational E	xposure Band Limit
ithium polysilicate	E	≤ 0.01 mg/m ³	·
Notes:	a chemical's potency and the advers	e health outcomes associa	nicals into specific categories or bands based on ted with exposure. The output of this process is an nge of exposure concentrations that are expected
Exposure controls			
Appropriate engineering controls	General exhaust is adequate under r	normal operating conditions	5.
Individual protection measures, such as personal protective equipment			
Eye and face protection	Safety glasses with side shields.		
	Chemical goggles. [AS/NZS 1337.]	1, EN166 or national equiva	alent]
	 Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritatior - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. 		
Skin protection	See Hand protection below		
Hands/feet protection	• Wear chemical protective gloves, e	e.g. PVC.	
	 Wear safety footwear or safety gumboots, e.g. Rubber 		
	• The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advanceand has therefore to be checked prior to the application.		
	• The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.		
	 Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. 		
	 Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact chemical resistance of glove material glove thickness and dexterity 		

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	 Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).
	 When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
	- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
	 Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
	- Contaminated gloves should be replaced.
	 As defined in ASTM F-739-96 in any application, gloves are rated as:
	- Excellent when breakthrough time > 480 min
	- Good when breakthrough time > 20 min
	- Fair when breakthrough time < 20 min
	- Poor when glove material degrades
	• For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.
	 It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.
	 Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:
	 Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
	- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential
	 Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	• Overalls.
	• P.V.C apron.
	Barrier cream.
	Skin cleansing cream.
	• Eye wash unit.
Recommended material(s)	GLOVE SELECTION INDEX
	Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index". The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

Xeolith LS 45 Lithium Silicate

Material	СРІ
BUTYL	А
NEOPRENE	А
VITON	A
NATURAL RUBBER	С
PVA	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Lithium Salts of America is a Division of ASG Chemical Holdings, LLC (ASG Chemie) • www.lithiumsalts.com 2603 NW 13th St. #231 Gainesville, FL 32609 • Main : 352.432.1481 • Fax : 352.430.7442 • Toll Free : 1.833.LITHUSA (548.4872)

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RESPIRATORY PROTECTION

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used
- Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1,000	@1@-AUS / Class1 @2@	
up to 50	1,000		@1@-AUS / Class 1 @2@
up to 50	5,000	Airline *	
up to 100	5,000		@1@-2@2@
up to 100	10,000		@1@-3 @2@
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds (below 65 degC)

SECTION 9 Physical and chemical properties

Appearance	Clear to opalescent white liq	uid with a musty odour; mixes with water.	
Physical state	Liquid	Relative density (Water = 1)	1.17-1.20
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	10.8-11.2	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	0	Viscosity (cSt)	<20
itial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2.33	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available



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SECTION 10 Stability and reactivity

Reactivity	See section 7		
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable.		
	Product is considered stable.Hazardous polymerisation will not occur.		
Possibility of hazardous reactions	See section 7		
Conditions to avoid	See section 7		
Incompatible materials	See section 7		
Hazardous decomposition products	See section 5		
ECTION 11 Toxicological information			
formation on toxicological effects			
Inhaled	The material can cause respiratory irritatio further lung damage. Not normally a hazar		o such irritation can cause
Ingestion	Accidental ingestion of the material may b	e damaging to the health of the individual.	
Skin Contact	This material can cause inflammation of the should not be exposed to this material	e skin on contact in some persons. Open	cuts, abraded or irritated skin
	Entry into the blood-stream, through, for ex with harmful effects. Examine the skin prio suitably protected.		
Eye	This material can cause eye irritation and o	damage in some persons.	
Chronic	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.		
Xeolith LS 45 (Lithium Silicate)	TOXICITY	IRRITATION	
	Not Available	Not Available	
lithium polysilicate	TOXICITY	IRRITATION	
	dermal (rat) LD50: >5000 mg/kg[1]	Not Available	
	Inhalation(Rat) LC50: >2.06 mg/l4h[1]		
	Oral (Rat) LD50: 2500 mg/kg[1]		
water	TOXICITY	IRRITATION	
	Oral (Rat) LD50: >90000 mg/kg[2]	Not Available	
Legend:	1. Value obtained from Europe ECHA Reg manufacturer's SDS. Unless otherwise spe chemical Substances		
LITHIUM POLYSILICATE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms with minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversi airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.		
LITHIUM POLYSILICATE & WATER	No significant acute toxicological data ide	ntified in literature search.	
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	V	Reproductivity	×
Serious Eye Damage/Irritation	V	STOT - Single Exposure	V
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

✓ -Data available to make classification

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SECTION 12 Ecological information

oxicity					
Xeolith LS 45 (Potassium Lithium Silicate)	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
potassium silicate	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	207mg/l	2
	EC50	48h	Crustacea	>220mg/l	2
	LC50	96h	Fish	>27.5mg/l	2
	EC0(ECx)	72h	Algae or other aquatic plants	35mg/l	2
water	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, cEcotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingred	ient	Persistence: Water/Soil	Persistence: Air
W	rater	LOW	LOW
Bioaccumulative potential			
Ingred	ient	Bioaccumulation	
		No Data available for all ingredient	S
Mobility in soil			
Ingred	ient	Mobility	
		No Data available for all ingredient	S
SECTION 13 Disposal considerations Waste treatment methods Product / Packaging disposal		Legislation addressing waste disp	osal requirements may differ by country, state and/ or territory. Each user must
rioduct / Lackaging disposal		0 0	a. In some areas, certain wastes must be tracked.
		A Hierarchy of Controls seems to b • Reduction	be common - the user should investigate:
		• Reuse • Recycling • Disposal (if all else fails)	

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Pyrophoric (Liquid or Solid)

Oxidizer (Liquid, Solid or Gas)

In contact with water emits flammable gas

Acute toxicity (any route of exposure)

Pyrophoric Gas

Corrosive to metal

Organic Peroxide

Combustible Dust

Reproductive toxicity

Aspiration Hazard

Germ cell mutagenicity Simple Asphyxiant

Skin Corrosion or Irritation

Respiratory or Skin Sensitization

Specific target organ toxicity (single or repeated exposure)

Serious eye damage or eye irritation

Hazards Not Otherwise Classified

Carcinogenicity

Self-reactive

No

Yes

No

No No

No

No

Yes

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_abels Required	
Marine Pollutant	NO
	Shipping container and transport vehicle placarding and labeling may vary from the below information. Products that are regulated for transport will be packaged and marked as Dangerous Goods in Limited Quantities according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.
	Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable
Fransport in bulk in accordance with MARPOL	Annex V and the IMSBC Code
Product name	Group
lithium polysilicate	Not Available
water	Not Available
ransport in bulk in accordance with the IGC Co	ode
Product name	Ship Type
lithium polysilicate	Not Available
water	Not Available
Safety, health and environmental regulations / lithium polysilicate is found on the following reg	
Safety, health and environmental regulations / I ithium polysilicate is found on the following regulations JS Toxic Substances Control Act (TSCA) - Cherr vater is found on the following regulatory lists	gulatory lists nical Substance Inventory
Safety, health and environmental regulations / lithium polysilicate is found on the following regulators: JS Toxic Substances Control Act (TSCA) - Cherrivater is found on the following regulatory lists JS Toxic Substances Control Act (TSCA) - Cherrie rederal Regulations	gulatory lists nical Substance Inventory
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ithium polysilicate is found on the following re- JS Toxic Substances Control Act (TSCA) - Cherr water is found on the following regulatory lists JS Toxic Substances Control Act (TSCA) - Cherr Federal Regulations Superfund Amendments and Reauthorization Act Section 311/312 hazard categories Flammable (Gases, Aerosols, Liquids, or Solids)	gulatory lists nical Substance Inventory nical Substance Inventory t of 1986 (SARA) No



US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4) None Reported

State Regulations

US. California Proposition 65	65 None Reported		
National Inventory Status			
National Inventory	Status		
Australia - AIIC / Australia			
Non-Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (lithium polysilicate; water)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	No (lithium polysilicate)		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - FBEPH	No (lithium polysilicate)		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

SECTION 16 Other information

	Revision Date	20/08/2021	
	Initial Date	29/08/2019	
SDS Version Summary	Version	Date of Update	Sections Updated
	7.1	19/08/2021	Classification change due to full database hazard calculation/update.
Other information			n and its individual components has drawn on official and authoritative sources as the Chemwatch Classification committee using available literature references.
determine whether the reported Hazards are Risks		ication tool and should be used to assist in the Risk Assessment. Many factors d Hazards are Risks in the workplace or other settings. Risks may be determined narios. Scale of use, frequency of use and current or available engineering controls	

Definitions and abbreviations

PC-TWA:	Permissible Concentration-Time Weighted Average
PC-STEL:	Permissible Concentration-Short Term Exposure Limit
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Governmental Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit
IDLH:	Immediately Dangerous to Life or Health Concentrations
ES:	Exposure Standard
OSF:	Odour Safety Factor
NOAEL :	No Observed Adverse Effect Level
LOAEL:	Lowest Observed Adverse Effect Level
TLV:	Threshold Limit Value
LOD:	Limit Of Detection
OTV:	Odour Threshold Value
BCF:	BioConcentration Factors
BEI:	Biological Exposure Index
AIIC:	Australian Inventory of Industrial Chemicals
DSL:	Domestic Substances List
NDSL:	Non-Domestic Substances List
IECSC:	Inventory of Existing Chemical Substance in China
EINECS:	European INventory of Existing Commercial chemical Substances
ELINCS:	European List of Notified Chemical Substances
NLP:	No-Longer Polymers
ENCS:	Existing and New Chemical Substances Inventory
KECI:	Korea Existing Chemicals Inventory
NZIOC:	New Zealand Inventory of Chemicals
PICCS:	Philippine Inventory of Chemicals and Chemical Substances
TSCA:	Toxic Substances Control Act
TCSI:	Taiwan Chemical Substance Inventory
INSQ:	Inventario Nacional de Sustancias Químicas
NCI:	National Chemical Inventory
FBEPH:	Russian Register of Potentially Hazardous Chemical and Biological Substances

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