# Moon Deck Pty Ltd

Chemwatch Hazard Alert Code: 2

Chemwatch: 5562-61

Issue Date: 06/10/2022 Version No: 2.1 Print Date: 06/10/2022 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements S.GHS.AUS.EN.E

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

Product name	Moon Deck Glow Line/Glow Path Aggregate
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	Laboratory chemicals, manufacture of substance.	

## Details of the manufacturer or supplier of the safety data sheet

Registered company name	Moon Deck Pty Ltd
Address	3/145 Bosworth Rd Bairnsdale Vic 3875 Australia
Telephone	Not Available
Fax	Not Available
Website	www.moondeck.com.au
Email	frank@moondeck.com.au

#### Emergency telephone number

Association / Organisation	Frank Strini – Managing Director
Emergency telephone numbers	1300 930 097
Other emergency telephone numbers	Not Available

# **SECTION 2 Hazards identification**

Classification of the substance or mixture		
Poisons Schedule Not Applicable		
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements



Warning Signal word

#### Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statement(s) Prevention		
	P271	Use only outdoors or in a well-ventilated area

F2/1	Use only outdoors of in a weil-ventilated area.
P261	Avoid breathing dust/fumes.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

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	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 and soap.	
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
12004-37-4	>60	strontium aluminate
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

### **SECTION 4 First aid measures**

Description of first aid measur	es
Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

### **SECTION 5 Firefighting measures**

### Extinguishing media

- 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 mixture

opecial nazarus ansing nom the substrate of mixture		
Fire Incompatibility	None known.	
Advice for firefighters		
	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.	
Fire Fighting	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.

	<ul> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	Under certain conditions the material may become combustible because of the ease of ignition which occurs after 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: metal oxides May emit poisonous fumes. May emit poisonous fumes.
HAZCHEM	Not Applicable

### **SECTION 6 Accidental release measures**

Personal precautions, protective equipment and emergency procedures See section 8

### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Recover product wherever possible.</li> <li>IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.</li> <li>ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise Emergency Services.</li> </ul>

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

# **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>

### Conditions for safe storage, including any incompatibilities

J.,	
Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Inorganic alkaline earth metal derivative.</li> <li>Derivative of very electropositive metal.</li> <li>Metals and their oxides or salts may react violently with chlorine trifluoride and bromine trifluoride.</li> <li>These trifluorides are hypergolic oxidisers. They ignite on contact (without external source of heat or ignition) with recognised fuels - contact</li> </ul>

with these materials, following an ambient or slightly elevated temperature, is often violent and may produce ignition. • The state of subdivision may affect the results.

## **SECTION 8 Exposure controls / personal protection**

### **Control parameters**

Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Not Available

# Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
Moon Deck Glow Line/Glow Path Aggregate	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
strontium aluminate	Not Available		Not Available	

## Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit			
strontium aluminate	E ≤ 0.01 mg/m <sup>3</sup>			
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.			

# Exposure controls

	<ul> <li>Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be if The basic types of engineering controls are:</li> <li>Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev.</li> <li>Local exhaust ventilation is required where solids are had proportion will be powdered by mutual friction.</li> <li>If in spite of local exhaust an adverse concentration of th Such protection might consist of:</li> <li>(a): particle dust respirators, if necessary, combined with an a (b): filter respirators with absorption cartridge or canister of th</li> <li>(c): fresh-air hoods or masks.</li> <li>Air contaminants generated in the workplace possess varying circulating air required to effectively remove the contaminant.</li> </ul>	ndependent of worker interactions to provide this high level y or process is done to reduce the risk. selected hazard "physically" away from the worker and va o can remove or dilute an air contaminant if designed pro- mical or contaminant in use. ent employee overexposure. Indled as powders or crystals; even when particulates are e substance in air could occur, respiratory protection sho absorption cartridge; e right type;	vel of protection. ventilation that strategically perly. The design of a relatively large, a certain uld be considered.		
	Circulating air required to effectively remove the contaminant. Type of Contaminant:		Air Speed:		
Appropriate engineering controls	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)		1-2.5 m/s (200-500 f/min.)		
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).		2.5-10 m/s (500-2000 f/min.)		
	Within each range the appropriate value depends on:				
	Lower end of the range	Upper end of the range			
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity			
	3: Intermittent, low production.	3: High production, heavy use			
	4: Large hood or large air mass in motion 4: Small hood-local control only				
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.				
Personal protection					
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact I the wearing of lenses or restrictions on use, should be cr and adsorption for the class of chemicals in use and an a their removal and suitable equipment should be readily a remove cancer lense here a core and restrictions.</li> </ul>	eated for each workplace or task. This should include a raccount of injury experience. Medical and first-aid person	review of lens absorption nel should be trained in rigation immediately and		

national equivalent]

remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or

Skin protection	See Hand protection below
Hands/feet protection	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 advance and 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 worm on clean hands. After using gloves, hands should be washed and dried throroughly, Application of a non-perfurmed moisturies ir secommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: - elemical resistance of glove material, e.g. Urope EN 374, US F739, AS/NZS 2161.1 or national equivalent) elemical resistance of glove material, e.g. Urope EN 374, US F739, AS/NZS 2161.1 or national equivalent) When onghoed 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 2161.1.0 r national equivalent) is recommended Some glove scheed by eleventent and this should be taken into account when considering gloves for long-term use Some glove scheed by more ment and this should be taken into account when considering gloves for long-term use Contaminated gloves with a protection class of 3 or higher (breakthrough time = 20 min - Som glove scheed hore alterial, glove the exact opposite and the should be taken into account when considering gloves for long-term use Commonide with prevention class of 3 or higher (breakthrough time = 20 min - Som glove scheed through time > 20 min - exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough time = 20 min - Sor when
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

#### **Respiratory protection**

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

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)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
 Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

Class P2 particulate filters are used for protection against mechanically and thermally generated particulates or both.

P2 is a respiratory filter rating under various international standards, Filters at least 94% of airborne particles Suitable for:

· Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.

· Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke.

· Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS

## **SECTION 9** Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Powder or granules; insoluble in water.		
Physical state	Divided Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (Not Available%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

### Information on toxicological effects

Moon Deck Glow Line/Glow	TONIGHT	IRRITATION	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
Chronic	Substance accumulation, in the human body, may occur and may ca Exposure to large doses of aluminium has been connected with the Strontium accumulates in teeth and bone, especially in the growth pi calcium produces severe bone deformities, inco-ordination, weakness	ates of rapidly growing bone. A chronic diet high in strontium and low in	
Eye	This material can cause eye irritation and damage in some persons.		
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Strontium salts induce vomiting and diarrhoea when swallowed in large quantity. Absorbed strontium may produce painful contractions of the limbs and may be involved in abnormalities of the heart. Acute toxic responses to aluminium are confined to the more soluble forms.		
Inhaled	if excessive concentrations of particulate are inhaled.	ditions such as emphysema or chronic bronchitis, may incur further disabil r if kidney damage has been sustained, proper screenings should be	

	ΤΟΧΙΟΙΤΥ	IRRITATION
strontium aluminate	Not Available	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute to specified data extracted from RTECS - Register of Toxic Effect of chemi	-
STRONTIUM ALUMINATE	Asthma-like symptoms may continue for months or even years after exp known as reactive airways dysfunction syndrome (RADS) which can occ criteria for diagnosing RADS include the absence of previous airways di asthma-like symptoms within minutes to hours of a documented exposu airflow pattern on lung function tests, moderate to severe bronchial hype lymphocytic inflammation, without eosinophilia. RADS (or asthma) follow the concentration of and duration of exposure to the irritating substance (result of exposure due to high concentrations of irritating substance (ft disorder is characterized by difficulty breating, cough and mucus produ No significant acute toxicological data identified in literature search. For aluminium compounds: Aluminium present in food and drinking water is poorly absorbed througi on the form in which it is ingested and the presence of dietary consituer marked effect on absorption of aluminium, as they can either enhance u carboxylic acids such as ciric and lactic), or reduce it by forming insolut Considering the available human and animal data it is likely that the oral Although bioavailability appears to generally parallel water solubility, ins to bioavailability. For oral intake from food, the European Food Safety Authority (EFSA) h aluminium gested with hoot. This corresponds to a systemically availat of body weight. This means that for an adult weighing 60 kg, a systemic Based on a neuro-developmental toxicity study of aluminum citrate adm Cormittee on Food Additives (JEGFA) established a Provisional Toleral aluminium. Compounds in food, including food additives. The Committee (COT) considers that the derivation of this PTWI was source propose, the data, derived from experimental studies, on dermal absorp used as a basis. At about 10.5 µg, the calculated systemic intake values for an adult weighing 60 kg. It aluminium -containing antiperspirants are EFSA is therefore exceeded. The values for damaged skin, for example daily use of aultiminium citrate day bey day dating subchario: been	pur after exposure to high levels of highly irritating compound. Main sease in a non-atopic individual, with sudden onset of persistent ret to the irritant. Other criteria for diagnosis of RADS include a reversible reactivity on methacholine challenge testing, and the lack of minimal wing an irritating inhalation is an infrequent disorder with rates related to . On the other hand, industrial bronchilis is a disorder that occurs as a an particles) and is completely reversible after exposure ceases. The criton. The upstrom the metal cation complex Ligands in food can have a ptake by forming absorbable (susually water soluble) complexes (e.g., wi le compounds (e.g., with phosphate or dissolved silicate). Tabka by forming absorbable (susually water soluble) complexes (e.g., wi le borpounds (e.g., with phosphate or dissolved silicate). Tabsorption of aluminium can vary 10-fold based on chemical form alom ufficient data are available to directly extrapolate from solubility in water as derived a tolerable weekly intake (TWI) of 1 milligram (mg) of SA states a medium bioavailability of 0.1 % for all aluminium compounds le tolerable daily dose of 0.143 microgrammes (µg) per kilogramme (kg ally available dose of 8.6 µg per day is considered sale. Inistered via drinking water to rats, the Joint FAO/WHO Expert be Weekly intake (PTWI) of 2 mg/kg bw (expressed as a luminium) for an Toxicity of chemicals in food, consumer products and the environme should be used in assessing potential risks from dietary exposure to seed the estimated aluminium absorption from antiperspirants. For this tion of aluminium from antiperspirants for healthy and damaged skin was for healthy skin are above the 8.6 µg per day that are considered safe used on a daily basis, the tolerable weekly intake determined by the sipilues from shaving, are many times higher. This means that in case o be completely exhausted. In addition, further aluminium sulfate have or fast (10 oral exposure. Effects on nerve cells, testes, bone and

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# Moon Deck Glow Line/Glow Path Aggregate

	Neurodegenerative diseases. Following the observation that high levels of aluminium were carried out to determine if aluminium could cause periods. Aluminium was identified, along with other ele Alzheimer disease, a common form of senile and pre- of Alzheimer disease with aluminium in water, but othe aluminium from food and how concentrations of alumin There are suggestions that persons with some genetic research to determine whether aluminium from various neurodegenerative diseases. Aluminium is a neurotoxil limitations and therefore cannot be used for quantitation Contact sensitivity: It has been suggested that the body burden of alumini syndrome can be caused by aluminium-containing adj adults presenting with ascending myalgia and severe histological findings include aluminium-containing mad long-lasting granuloma triggers the development of the Aluminium acts not only as an adjuvant, stimulating the sensitisers causing contact allergy and allergic contact a weak allergen. A metal must be ionised to be able to initiate an immune response. Once inside the skin, the routes of exposure and sensitisation to aluminium are significant association between contact allergy to alum immunotherapy (ASIT) Nodules were overrepresented Other routes of sensitisation reported in the literature a tattooing of the skin with aluminium-containing pigmer granulomas. Even though aluminium is used extensive have been reported Systemic allergic contact dermatit pruritic nodules at present and previous injection sites vaccination with aluminium-containing vaccines and/or	e dementia or cognitive impairment as ements, in the amyloid plaques that ar senile dementia. some of the epidemii er studies do not confirm this associati nium in food affect the association bet c variants may absorb more aluminium s sources has a significant causal ass icant in experimental animals. However ve risk assessment. ium may be linked to different iseases juvants in vaccines. Macrophagic myo fatigue following exposure to aluminiu crophages infiltrating muscle tissue at e systemic syndrome. e immune system either to fend off infe t dermatitis. In general, metal allergies o act as a contact allergen, then it has r metal ions must bind to proteins to be through aluminium-containing vaccina ninium and persistent itching nodules i d in patients with contact allergy to alu are the prolonged use of aluminium-ca ts. Most of the patients experienced d ely in industry, only a low number of ca tis in the form of flare-up reactions afte a, eczema at the site of vaccination as	a consequence of environmental exposure over long e one of the diagnostic lesions in the brain for ology studies suggest the possibility of an association ion. All studies lack information on ingestion of ween aluminium in water and Alzheimer disease." In than others, but there is a need for more analytical ociation with Alzheimer disease and other er, most of the animal studies performed have several . Macrophagic myofasciitis and chronic fatigue fasciitis (MMF) has been described as a disease in m hydroxide-containing vaccines The corresponding the injection site. The hypothesis is that the ections or to tolerate antigens, it also acts as a s are very common and aluminium is considered to be to undergo haptenisation to be immunogenic and to ecome immunologically reactive. The most important as. One Swedish study showed a statistically in children treated with allergen-specific minium ontaining antiperspirants, topical medication, and eczematous reactions whereas tattooing caused asses of occupational skin sensitisation to aluminium are re-exposure to aluminium has been documented: well as at typically atopic localisations after
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	~	Reproductivity	×
Serious Eye Damage/Irritation	v v	STOT - Single Exposure	×
Serieus Lye Damage/initation	*	or or - onigie Exposure	*

Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		<b>v</b>	not available or does not fill the criteria for classification le to make classification

# **SECTION 12 Ecological information**

### Toxicity

Maan Daala Olam Lina/Olam	Endpoint	Test Duration (hr)	Species	Value	Source
Moon Deck Glow Line/Glow Path Aggregate	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
strontium aluminate	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox databa		A Registered Substances - Ecotoxicological I quatic Hazard Assessment Data 6. NITE (Jap		

### DO NOT discharge into sewer or waterways.

### Persistence and degradability

•	-	
Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients
Bioaccumulative potentia	al	
Ingredient	Bioaccumulation	
	No Data available for all ingredients	
Mobility in soil		
Ingredient	Mobility	

Ingredient	Mobility
	No Data available for all ingredients

# **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal

**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.

Continued...

	<ul> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>
SECTION 14 Transport infor	
Labels Required	
Marine Pollutant	NO

HAZCHEM Not Applicable

#### Land transport (ADG): 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

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
strontium aluminate	Not Available

#### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
strontium aluminate	Not Available

### **SECTION 15 Regulatory information**

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

#### strontium aluminate is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (strontium aluminate)
Canada - DSL	No (strontium aluminate)
Canada - NDSL	Yes
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (strontium aluminate)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	No (strontium aluminate)
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (strontium aluminate)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
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	06/10/2022
Initial Date	06/10/2022

### **SDS Version Summary**

Version	Date of Update	Sections Updated
2.1	06/10/2022	Supplier Information

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### 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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