

# Surround by Laminex Laminex Group Pty Ltd

Chemwatch: **5452-19** Version No: **2.1.1.1** Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: **08/03/2021** Print Date: **16/03/2021** L.GHS.AUS.EN

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

### **Product Identifier**

Product name	Surround by Laminex
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	Note: Hazard statement relates to the resin.
	Use according to manufacturer's directions.

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

Registered company name	Laminex Group Pty Ltd	
Address	90-94 Tram Road Doncaster VIC 3108 Australia	
Telephone	+61 3 9840 4347	
Fax	+61 3 9840 6513	
Website	www.laminex.com.au	
Email	Sant.quaremba@laminex.com.au	

#### **Emergency telephone number**

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
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, Skin Sensitizer Category 1, Serious Eye Damage/Eye Irritation Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI		

# Label elements

Hazard pictogram(s)



Signal word Danger

### Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/
P261	Avoid breathing dust/fumes.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

# 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.	
P310	Immediately call a POISON CENTER/doctor/	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

### 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
Not Available		Structural MDF combined with coating
Not Available		consist of
14807-96-6	10-25	talc
13463-67-7	2.5-10	C.I. Pigment White 6
26530-20-1	0-1	2-octyl-4-isothiazolin-3-one
1336-21-6	0-1	ammonium hydroxide
14808-60-7	0-1	silica crystalline - quartz
25155-30-0	0-1	sodium dodecylbenzenesulfonate
7778-80-5	0-1	potassium sulfate
Not Available	balance	Ingredients determined not to be hazardous

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

Description of first aid measures

	<ul> <li>Generally not applicable.</li> </ul>
Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with 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>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	Brush off dust. In the event of abrasion or irritation of the skin seek medical attention.
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>Generally not applicable.</li> <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

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

# Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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# Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> <li>Slight hazard when exposed to heat, flame and oxidisers.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Solid which exhibits difficult combustion or is difficult to ignite.</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion.</li> <li>Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited; once initiated larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> <li>A dust explosion may release large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.</li> <li>Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion enters the surrounding area, it will disturb any settled dust layers, forming a second dust cloud, and often initiate a much larger secondary explosion. All large scale explosions have resulted from chain reactions of this type.</li> <li>Dry dust can also be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during</li> </ul>

HAZCHEM	Not Applicable
	This may create a secondary hazard.
	Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures.
	packaging remains in place.
	Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible
	May emit corrosive fumes.
	May emit poisonous fumes.
	other pyrolysis products typical of burning organic material.
	metal oxides
	silicon dioxide (SiO2)
	sulfur oxides (SOx)
	carbon dioxide (CO2)
	Combustion products include:
	<ul> <li>All movable parts coming in contact with this material should have a speed of less than 1-metre/sec.</li> </ul>
	explosion venting.
	<ul> <li>Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as</li> </ul>
	<ul> <li>transport.</li> <li>Build-up of electrostatic charge may be prevented by bonding and grounding.</li> </ul>

### **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>Clean up all spills immediately.</li> <li>Secure load if safe to do so.</li> <li>Bundle/collect recoverable product.</li> <li>Collect remaining material in containers with covers for disposal.</li> </ul>
Major Spills	<ul> <li>Clean up all spills immediately.</li> <li>Wear protective clothing, safety glasses, dust mask, gloves.</li> <li>Secure load if safe to do so. Bundle/collect recoverable product.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Water may be used to prevent dusting.</li> <li>Collect remaining material in containers with covers for disposal.</li> <li>Flush spill area with water.</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	No special handling procedures required.
Other information	<ul> <li>Keep dry.</li> <li>Store under cover.</li> <li>Store in a well ventilated area.</li> <li>Store away from sources of heat or ignition.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

### Conditions for safe storage, including any incompatibilities

Suitable container	No restriction on the type of containers. Packing as recommended by manufacturer. Check all material is clearly labelled.
Storage incompatibility	<ul> <li>Keep dry</li> <li>Avoid reaction with oxidising agents</li> </ul>

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

#### **Control parameters**

# Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	talc	Talc, (containing no asbestos fibres)	2.5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	C.I. Pigment White 6	Titanium dioxide	10 mg/m3	Not Available	Not Available	<ul> <li>(a) This value is for inhalable dust containing no asbestos and &lt; 1% crystalline silica.</li> </ul>
Australia Exposure Standards	silica crystalline - quartz	Silica - Crystalline: Quartz (respirable dust)	0.05 mg/m3	Not Available	Not Available	Not Available

### Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
C.I. Pigment White 6	30 mg/m3	330 mg/m3	2,000 mg/m3
ammonium hydroxide	61 ppm	330 ppm	2,300 ppm
silica crystalline - quartz	0.075 mg/m3	33 mg/m3	200 mg/m3
sodium dodecylbenzenesulfonate	2.1 mg/m3	23 mg/m3	87 mg/m3
potassium sulfate	20 mg/m3	220 mg/m3	1,300 mg/m3

Ingredient	Original IDLH	Revised IDLH
talc	1,000 mg/m3	Not Available
C.I. Pigment White 6	5,000 mg/m3	Not Available
2-octyl-4-isothiazolin-3-one	Not Available	Not Available
ammonium hydroxide	Not Available	Not Available
silica crystalline - quartz	25 mg/m3 / 50 mg/m3	Not Available
sodium dodecylbenzenesulfonate	Not Available	Not Available
potassium sulfate	Not Available	Not Available

### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit		
2-octyl-4-isothiazolin-3-one	E ≤ 0.1 ppm		
ammonium hydroxide	E	≤ 0.1 ppm	
sodium dodecylbenzenesulfonate	E	≤ 0.01 mg/m³	
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.		

# MATERIAL DATA

# **Exposure controls**

Appropriate engineering controls that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.	•	
considered. Such protection might consist of		<ul> <li>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</li> <li>The basic types of engineering controls are:</li> <li>Process controls which involve changing the way a job activity or process is done to reduce the risk.</li> <li>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</li> <li>Employers may need to use multiple types of controls to prevent employee overexposure.</li> <li>Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.</li> <li>Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.</li> <li>If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be</li> </ul>
considered. Such protection might consist of: (a): particle dust respirators, if necessary, combined with an absorption cartridge;		

	<ul> <li>(b): filter respirators with absorption cartridge or canister of t</li> <li>(c): fresh-air hoods or masks</li> <li>Build-up of electrostatic charge on the dust particle, may</li> <li>Powder handling equipment such as dust collectors, dry explosion venting.</li> <li>Air contaminants generated in the workplace possess varyir velocities" of fresh circulating air required to efficiently remo</li> </ul>	be prevented by bonding and grounding. ers and mills may require additional prote ng "escape" velocities which, in turn, deter	ction measures such as	
	Type of Contaminant:		Air Speed:	
	direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas	1-2.5 m/s (200-500 f/min.)	
	grinding, abrasive blasting, tumbling, high speed wheel ge velocity into zone of very high rapid air motion).	nerated dusts (released at high initial	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			
	extraction point should be adjusted, accordingly, after refere extraction fan, for example, should be a minimum of 4-10 m distant from the extraction point. Other mechanical consider apparatus, make it essential that theoretical air velocities are installed or used. If exposure to workplace dust is not controlled, respiratory p	/s (800-2000 f/min) for extraction of crush- ations, producing performance deficits wit e multiplied by factors of 10 or more when	er dusts generated 2 metres hin the extraction extraction systems are	
Personal protection		<b>EP</b>		
Eye and face protection	<ul> <li>No special equipment required due to the physical form of the product.</li> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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 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 national equivalent]</li> </ul>			
Skin protection	See Hand protection below			
Hands/feet protection	Wear general protective gloves, eg. light weight rubber glove ► Butyl rubber gloves Nitrile rubber gloves (Note: Nitric acid penetrates nitri			
Body protection	See Other protection below			
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier groom</li> </ul>			

#### Recommended material(s)

#### **GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

#### "Forsberg Clothing Performance Index".

Other protection

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Barrier cream.
Skin cleansing cream.
Eye wash unit.

#### Surround by Laminex

Material	CPI
BUTYL	А
HYPALON	А

#### **Respiratory protection**

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum	Half-Face	Full-Face	Powered Air
Protection Factor	Respirator	Respirator	Respirator
up to 10 x ES	AK-AUS P2	-	AK-PAPR-AUS / Class 1 P2

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Surround	by	Laminex
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NEOPRENE	А
NEOPRENE/NATURAL	А
NATURAL+NEOPRENE	В
NITRILE	В
NATURAL RUBBER	С
NITRILE+PVC	С
PVC	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.

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

#### Information on basic physical and chemical properties

up to 50 x ES	-	AK-AUS / Class 1 P2	-
up to 100 x ES	-	AK-2 P2	AK-PAPR-2 P2 ^

#### ^ - Full-face

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)

Respiratory protection not normally required due to the physical form of the product.

Appearance	Structural MDF combined with coating.		
Physical state	Manufactured	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	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 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 Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Applicable

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Product is considered stable and 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

# Information on toxicological effects

Inhaled	Generated dust may be discomforting to the upper respiratory tract. Not normally a hazard due to physical form of product.
Ingestion	The dust may be discomforting and abrasive if swallowed. Not normally a hazard due to physical form of product. Overexposure is unlikely in this form. Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	The material may be mildly discomforting and abrasive to the skin. Sharp edges may abrade the skin. Not normally a hazard due to physical form of product.
Eye	Not normally a hazard due to physical form of product. The dust may be discomforting
Chronic	<ul> <li>Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations.</li> <li>Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.</li> <li>Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.</li> <li>Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.</li> </ul>

0	ΤΟΧΙΟΙΤΥ	IRRITATION
Surround by Laminex	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
talc	Inhalation(Rat) LC50; >2.1 mg/l4 <sup>[1]</sup>	Skin (human): 0.3 mg/3d-l mild
	Oral(Rat) LD50; >5000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION
	dermal (hamster) LD50: >=10000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
C.I. Pigment White 6	Inhalation(Rat) LC50; >2.28 mg/l4 <sup>[1]</sup>	Skin (rabbit)
	Oral(Rat) LD50; >=2000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 311 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.5% non irritant
	Oral(Rat) LD50; 125 mg/kg <sup>[1]</sup>	Eye (rabbit): 45% conc CORROSIVE
		Eye (rabbit): 5% conc moderate
		Eye(rabbit):100 mg SEVERE
2-octyl-4-isothiazolin-3-one		Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
		Skin (rabbit): 45% conc SEVERE
		Skin (rabbit): 500 mg/24 hours
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>
		Skin: adverse effect observed (irritating) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION
ammonium hydroxide	Inhalation(Rat) LC50; 2000 ppm4 <sup>[2]</sup>	Eye (rabbit): 0.25 mg SEVERE
	Oral(Rat) LD50; ~350370 mg/kg <sup>[2]</sup>	Eye (rabbit): 1 mg/30s SEVERE
	ΤΟΧΙΟΙΤΥ	IRRITATION
silica crystalline - quartz	Oral(Rat) LD50; 500 mg/kg <sup>[2]</sup>	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
sodium dodecylbenzenesulfonate	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 0.25 mg/24hr-SEVERE
	Inhalation(Rat) LC50; 0.31 mg/L4 <sup>[2]</sup>	Eye (rabbit): 1% - SEVERE
	Oral(Rat) LD50; 775 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin (rabbit): 20 mg/24 hr-SEVERE
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>

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		Skin: no adverse effect ob	served (not irritating) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION	
potassium sulfate	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	
	Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup>		
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		

TALC	No significant acute toxicological data identified in literature search. For talc (a form of magnesium silicate) The overuse of talc in nursing infants has resulted in pulmonary oedema, pneumonia and death within hours of inhaling talcum powder.The powder dries the mucous membranes of the bronchioles, disrupts pulmonary clearance, clogs smaller airways. Victims display wheezing, rapid or difficult breathing, increased pulse, cyanosis, fever. Mild exposure may cause relatively minor inflammatory lung disease. Long term exposure may show wheezing, weakness, productive cough, limited chest expansion, scattered rales, cyanosis.
C.1. PIGMENT WHITE 6	For tianium dioxide: Humans can be exposed to tianium dioxide via inhalation, ingestion or dermal contact. In human lungs, the clearance kinetics of tianium dioxide is poorly characterized relative to that in experimental animals. (General particle characteristics and host factors that are considered to affect deposition and retention patterns of inhaled, poorly soluble particles such as titanium dioxide are summarized in the monograph on carbon black.) With regard to inhald titanium dioxide, human data are mainy available from case reports that showed deposits of titanium dioxide che-dependent absorption by the gastroinestinal tract and large interindividual variations in blood levels of titanium dioxide, studies on the application of sunscreans containing ultrafine titanium dioxide to healthy skin of human volunteers revealed that titanium dioxide particles only penetrate into the outermost layers of the stratum comeun, suggesting that healthy skin as in effective barrier to titanium dioxide. There are no studies on penetration of titanium dioxide-exposed workers include decline in lung function, pleural disease with plaques and pleural thickning, and mild fibrotic changes. However, the workers in these studies were also exposed to absentos and/or silica. No data were available on genotoxic effects in titanium dioxide exposed humans. Many data on deposition, retention and clearance of titanium dioxide in apperimental animals are available for the inhalation route. Thainum dioxide inhalaton studies showed differences — both for normalized pulmonary burden (deposite mass per dry lung, mass per body weight) and clearance kinetics — among rodent species including rats of different size, age and strain. Clearance of titanium dioxide a sola ffected by pre-exposure to gaseous pollutants or co-exposure to cytotoxic aerosole. Differences in dose rate or clearance kinetics and the appearance of focal areas of hip inhalde titanium dioxide particles. Experimental studies with titanium dioxide harve demonstrated that rode

2-OCTYL- 4-ISOTHIAZOLIN-3-ONE	ROHM & HAAS Data ADI: 0.03 mg/kg/day NOEL: 60 mg/kg/day The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.
AMMONIUM HYDROXIDE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
	WARNING: For inhalation exposure <u>ONLY</u> : This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS
SILICA CRYSTALLINE - QUARTZ	The International Agency for Research on Cancer (IARC) has classified occupational exposures to <b>respirable</b> (<5 um) crystalline silica as being carcinogenic to humans . This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease. Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours.
	* Millions of particles per cubic foot (based on impinger samples counted by light field techniques). NOTE : the physical nature of quartz in the product determines whether it is likely to present a chronic health problem. To be a hazard the material must enter the breathing zone as respirable particles.
SODIUM DODECYLBENZENESULFONATE	Linear alkybenzene sulfonates (LAS) are classified as Irritant (Xi) with the risk phrases R38 (Irritating to skin) and R41 (Risk of serious damage to eyes) according to CESIO (CESIO 2000). LAS are not included in Annex 1 of list of dangerous substances of Council Directive 67/548/EEC. Linear alkybenzene sulfonic acids (LABS) are strong acids (pKa-2) are classified as corrosive (R34) Eranched materials exhibit comparable toxicity to linear species. <b>Acute toxicity:</b> The available data indicate minimal to moderate toxicity, with LD50 values ranging from 500 to 2000 mg/kg body weight (bw). Acute inhalation data also indicate a lack of significant toxicity, Available demail exposure data also shows a lack of significant toxicity. LAS are readily absorbed by the gastrointestinal tract after oral administration in animals. LAS are not readily absorbed through the skin . The bulk is metabolised in the liver to sulfophenylic carboxyl acids. The metabolites are excreted primarily via the urine and faces. The main urinary metabolites in rats are sulfophenyl butancic acid and Sulfophenyl pentancic acid. Accumulation of LAS or its main metabolites has not been established in any organ after repeated oral ingestion. No serious injuries or fatalities in man have been reported following accidental ingestion of LAS-containing detergent. The main clinical signs observed after oral administration to rats of doses near or greater than the LD50 values consisted of reduced voluntary activity, diarrhoea, weakness etc. Death usually occurred within 24 hours of administration. Rat appear to be more sensitive to LAS in man nice. LAS are readiation in or 12.59 visual according to EU-criteria. Human skin can tolerate contact with solution of up to 1%. LAS for 24 hours resulting in only mild intration. Application of > 5% LAS to the eyes of rabbits produced mild to no intration. Sin sensilization of > 5% LAS to the eyes of rabbits produced for years at extremely high levels (0.5%) in the diets to rats, produced no adverse effects on growt

	<ul> <li>Repeat dose toxicity:</li> <li>A GLP guideline study with p-toluenesulphonic acid (CAS No. 104-15-4) reported no adverse effects to male and female rats exposed orally for 28 days. The highest dose was 500 mg/kg bw/day (&gt;490 mg/kg bw/day based on &gt;98% active ingredient). Therefore the NOAEL was set at 500 mg/kg bw/day.</li> <li>Toxicity to reproduction:</li> <li>No fertility studies are reported for the aromatic sulphonic acids. There are however studies for the chemically related hydrotropes are ubstances that looked at reproductive organs and development of offspring. Hydrotropes are the salt form of the sulphonic acids and therefore are used as read-across for this endpoint. The 90-day oral rat and oral mouse studies and the 2-year chronic dermal rat and mouse studies with the closely related compound sodium xylene sulfonate (CAS No. 1300-727) included examination of sex organs of both sexes. No treatment related effects on reproductive organs were reported at doses roughly equivalent to those in the developmental toxicity study. he NOAEL for both maternal and foetal toxicity was the highest dose tested - 3000 mg/kg bw /day which is equivalent to 936 mg active ingredient per kilogram body weight per day. The conclusion of the study was no indications of developmental toxicity including teratogenesis.</li> <li>Genetic toxicity</li> <li>There is a fully documented, GLP Guideline (QECD 471) Ames Test and a fully documented, GLP Guideline (QECD 473) Chromosome aberration test exposed up to 1902 micrograms per liter of the test substance. These studies activation. The conclusion is the same as for the or otheresulphonic acid; chaits, and mutagenic and not cytotoxic.</li> <li>There is an additional, published report of an Ames Test for another of the aromatic sulphonic acids, but there are two in vivo mouse micronucleus studies for the related hydrotropes - sodium cumene sulfonate CAS 28348-530) and calcium xylene sulfonate (CAS 28348-530). Both se GLP-compilant Guideline mous</li></ul>
POTASSIUM SULFATE	for sodium sulfate: Sulfate (and sodium) ions are important constituents of the mammalian body and of natural foodstuffs and there is a considerable daily turnover of both ions (several grams/day expressed as sodium sulfate). Near-complete absorption of dietary sulfates may occur at low concentration, depending on the counter-ion, but absorption capacity can be saturated at higher artificial dosages resulting in cathartic effects. Absorption through skin can probably be ignored since sodium sulfate is fully ionised in solution. One source suggests that very high levels of sulfate in urine may occur due to absorption from dust inhalation. At dietary levels, excretion is mainly in the urine. Sulfates are found in all body cells, with highest concentrations in connective tissues, bone and cartilage. Sulfates play a role in several important metabolic pathways, including those involved in detoxification processes. The acute toxicity (LD50) of sodium sulfate has not been reliably established but is probably far in excess of 5000 mg/kg. In an inhalation study with an aerosol, no adverse effects were found at 10 mg/m3. Also human data indicate a very low acute toxicity of sodium sulfate. Human clinical experience indicates that very high oral doses of sodium sulfate, 300 mg/kg bw up to 20 grams for an adult, are well tolerated, except from (intentionally) causing severe diarrhoea. WHO/FAO did not set an ADI for sodium sulfate. There is no data on acute dermal toxicity, but this is probably of no concern because of total ionisation in solution. Sodium sulfate is not irritating to the skin and slightly irritating to the eyes. Respiratory irritation has never been reported. Based on wide practical experience with sodium sulfate, in combination with the natural occurrence of sulfate in the body, sensitising effects are highly unlikely. No suitable dermal and inhalation repeated-dose toxicity studies are available. Valid oral repeated dose toxicity studies with 21, 28 and 35 day studies in hens and pigs are available. Toxi
TALC & 2-OCTYL- 4-ISOTHIAZOLIN-3-ONE & AMMONIUM HYDROXIDE & SODIUM	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding

DODECYLBENZENESULFONATE	respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.		
TALC & C.I. PIGMENT WHITE 6	The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.		
Acute Toxicity		Carcinogenicity	×
Skin Irritation/Corrosion		Reproductivity	×
Serious Eye Damage/Irritation		STOT - Single Exposure	✓
Respiratory or Skin sensitisation		STOT - Repeated Exposure	×

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

Aspiration Hazard

×

# **SECTION 12 Ecological information**

Mutagenicity

×

## Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Surround by Laminex	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
tala	LC50	96	Fish	89581.016mg/l	2
talc	NOEC(ECx)	720	Algae or other aquatic plants	918.089mg/l	2
	EC50	96	Algae or other aquatic plants	7202.7mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48	Crustacea	1.9mg/l	2
	BCF	1008	Fish	<1.19.6	7
C.I. Pigment White 6	LC50	96	Fish	1.853.06mg/l	4
	EC50	72	Algae or other aquatic plants	3.757.58mg/l	4
	NOEC(ECx)	48	Crustacea	0.003mg/L	4
	EC50	96	Algae or other aquatic plants	179.05mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48	Crustacea	<=0.001mg/L	4
octyl-4-isothiazolin-3-one	LC50	96	Fish	<0.001mg/L	4
	NOEC(ECx)	840	Fish	<0.001mg/L	4
	EC50	96	Algae or other aquatic plants	0.15mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
ammonium hydroxide	LC50	96	Fish	0.053mg/L	4
	NOEC(ECx)	72	Fish	0.005mg/L	4
silica crystalline - quartz	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
sodium	Endpoint	Test Duration (hr)	Species	Value	Source
sodium dodecylbenzenesulfonate	EC50	48	Crustacea	<0.002mg/L	4

	LC50	96	Fish	0.017mg/L	4
	EC50(ECx)	48	Crustacea	<0.002mg/L	4
	EC50	72	Algae or other aquatic plants	21mg/l	2
	EC50	96	Algae or other aquatic plants	0.6421.358mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	1	Algae or other aquatic plants	0.014mg/L	4
	LC50	96	Fish	510880mg/l	4
potassium sulfate	EC50	48	Crustacea	890mg/l	1
	EC50	72	Algae or other aquatic plants	14302900mg/l	2
	EC50	96	Algae or other aquatic plants	1742.5mg/L	4
Legend:	3. EPIWIN Suite	e V3.12 (QSAR) - Aquatic Toxi	ope ECHA Registered Substances - Ecotoxicolo city Data (Estimated) 4. US EPA, Ecotox databa . NITE (Japan) - Bioconcentration Data 7. METI	se - Aquatic Toxicity Da	ta 5.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
C.I. Pigment White 6	HIGH	HIGH
2-octyl-4-isothiazolin-3-one	HIGH	HIGH

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
C.I. Pigment White 6	LOW (BCF = 10)
2-octyl-4-isothiazolin-3-one	LOW (LogKOW = 2.561)

### Mobility in soil

Ingredient	Mobility
C.I. Pigment White 6	LOW (KOC = 23.74)
2-octyl-4-isothiazolin-3-one	LOW (KOC = 2120)

### **SECTION 13 Disposal considerations**

Waste treatment methods		
Product / Packaging disposal	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>	

#### **SECTION 14 Transport information**

#### 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
talc	Not Available
C.I. Pigment White 6	Not Available
2-octyl-4-isothiazolin-3-one	Not Available
ammonium hydroxide	Not Available
silica crystalline - quartz	Not Available
sodium dodecylbenzenesulfonate	Not Available
potassium sulfate	Not Available

# Transport in bulk in accordance with the ICG Code

Product name	Ship Type
talc	Not Available
C.I. Pigment White 6	Not Available
2-octyl-4-isothiazolin-3-one	Not Available
ammonium hydroxide	Not Available
silica crystalline - quartz	Not Available
sodium dodecylbenzenesulfonate	Not Available
potassium sulfate	Not Available

# **SECTION 15 Regulatory information**

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

### talc is found on the following regulatory lists

taic is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC) Chemical Footprint Project - Chemicals of High Concern List	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans
C.I. Pigment White 6 is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by
Chemical Footprint Project - Chemicals of High Concern List	the IARC Monographs - Group 2B: Possibly carcinogenic to humans
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
2-octyl-4-isothiazolin-3-one is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6	
ammonium hydroxide is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6	
silica crystalline - quartz is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by
Chemical Footprint Project - Chemicals of High Concern List	the IARC Monographs - Group 1: Carcinogenic to humans
adjum dedeculterraneculterrate is found on the following regulatory lists	

sodium dodecylbenzenesulfonate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons

(SUSMP) - Schedule 5

#### potassium sulfate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (talc; C.I. Pigment White 6; 2-octyl-4-isothiazolin-3-one; ammonium hydroxide; silica crystalline - quartz; sodium dodecylbenzenesulfonate; potassium sulfate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	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 and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 Other information**

Revision Date	08/03/2021
Initial Date	08/03/2021

#### **SDS Version Summary**

Version Issue Date	Sections Updated
2.1.1.1 08/03/2021	Acute Health (eye), Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Chronic Health, Classification, Disposal, Engineering Control, Fire Fighter (extinguishing media), Fire Fighter (fire/explosion hazard), First Aid (inhaled), First Aid (skin), Handling Procedure, Personal Protection (hands/feet), Storage (storage incompatibility), Storage (storage requirement), Storage (suitable container), Use

#### 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<sub>o</sub> IDLH: Immediately Dangerous to Life or Health Concentrations

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

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