Spectrum Floors

Chemwatch: **60-7445** Version No: **2.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 30/10/2015 Print Date: 10/11/2015 Initial Date: Not Available S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Spectrum UV PU Sealer
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant	identified
	uses

Coating compound/ Surface coating/ paint. Roller application or brushing.

Details of the supplier of the safety data sheet

Registered company name	Spectrum Floors
Address	393 South Road Mile End 5031 SA Australia
Telephone	+61 8 8354 9000
Fax	+61 8 8354 9045
Website	Not Available
Email	393@spectrumfloors.com.au

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	1300 786 585
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable	
GHS Classification [1]	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	

Label elements

GHS label elements



SIGNAL WORD

WARNING

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Hazard statement(s)

H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction

Precautionary statement(s) Prevention

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
4986-89-4	5-10	pentaerythritol tetraacrylate
7473-98-5	1-5	2-hydroxy-2-methylpropiophenone
52-51-7	<0.1	2-bromo-2-nitropropan-1.3-diol
96118-96-6	<0.1	isothiazolinones, mixed

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Description of first ar	u illeasures
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

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	 mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
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.

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.

Special hazards arising from the substrate or mixture

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

Advice for firefighters

Fire Fighting

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- ▶ May be violently or explosively reactive.
- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course.

Fire/Explosion Hazard

- ▶ The material is not readily combustible under normal conditions.
- ▶ However, it will break down under fire conditions and the organic component may burn.
- Not considered to be a significant fire risk.
- ▶ Heat may cause expansion or decomposition with violent rupture of containers.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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.

Major Spills

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- ▶ Control personal contact with the substance, by using protective equipment.
- ▶ Prevent spillage from entering drains, sewers or water courses.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe h	nandling
Safe handling	 Most acrylic monomers have low viscosity therefore pouring, material transfer and processing of these materials do not necessitate heating. Viscous monomers may require heating to facilitate handling. To facilitate product transfer from original containers, product must be heated to no more than 60 deg. C. (140 F.), for not more than 24 hours. 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.
	▶ Store in original containers.

Other information

- ▶ Keep containers securely sealed.
- ▶ Store in a cool, dry, well-ventilated area.

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▶ Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

Suitable container

- ▶ Polyethylene or polypropylene container.
- ▶ Packing as recommended by manufacturer.
- ▶ Check all containers are clearly labelled and free from leaks.

Storage incompatibility

▶ Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Spectrum UV PU Sealer	Not Available	Not Available Not Available		Not Available
Ingredient	Original IDLH		Pavisad IDI H	

Ingredient	Original IDLH	Revised IDLH
pentaerythritol tetraacrylate	Not Available	Not Available
2-hydroxy- 2-methylpropiophenone	Not Available	Not Available
2-bromo-2-nitropropan- 1,3-diol	Not Available	Not Available
isothiazolinones, mixed	Not Available	Not Available

Exposure controls

Appropriate engineering controls

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.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

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.

Personal protection











Eye and face

- ► Safety glasses with side shields.
- ► Chemical goggles.
- 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.

Skin protection

protection

See Hand protection below

NOTE

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ► Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

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.

Suitability and durability of glove type is dependent on usage.

Body protection

See Other protection below

Other protection

- Overalls.
- P.V.C. apron.Barrier cream.

Thermal hazards

Not Available

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Respiratory protection

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid with a characteristic odour; mixes with water	r.	
Physical state	Liquid	Relative density (Water = 1)	1.02
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	8.0	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	25s @ 20C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>100 (Seta CC)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	>60
Vapour pressure (kPa)	2.3 @ 20C	Gas group	Not Available
Solubility in water (g/L)	miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. 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

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition

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Eye

This material can cause eye irritation and damage in some persons.

Chronic

Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

All multifunctional acrylates (MFA) produce skin disorders and sensitise the skin and inflammation. Vapours generated by the heat of milling may occur in sufficient concentration to produce inflammation.

Sensitisation may give severe responses to very low levels of exposure, i.e. hypersensitivity.

Spectrum UV PU Sealer	TOXICITY		IRRITATION		
opeon um ov r o ocalo.	Not Available	Not Available		Not Available	
pentaerythritol	TOXICITY		IRRITATION		
tetraacrylate	Not Available		Not Availab	le	
	TOXICITY	I	IRRITATION		
2-hydroxy-	dermal (rat) LD50: 6929 mg/kg*g ^[2]	1	* EM Indust	ries	
2-methylpropiophenone	Oral (rat) LD50: 1694 mg/kg*g ^[2]	1	Eye (rabbit)	: non-irritating	
			Skin (rabbit): non-irritating	
	TOXICITY		IRRITATION		
	dermal (rat) LD50: 64 mg/kg ^[2]		Eye (rabbit): 5 mg		
2-bromo-2-nitropropan- 1,3-diol	Inhalation (rat) LC50: >5 mg/L/4H ^[2]		Skin (human): 10 mg moderate		
1,0 4101	Inhalation (rat) LC50: 0.8 mg/L/4H ^[2]		Skin (rabbit): 500 mg/24h mild	
	Oral (rat) LD50: 180 mg/kge ^[2]		Skin (rabbit): 80 mg moderate		
	TOXICITY	1	IRRITATION		
isothiazolinones, mixed	Oral (rat) LD50: 53 mg/kgd ^[2]		Nil reported		
Legend:	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				
Acute Toxicity	0	Carcii	nogenicity	0	
Skin Irritation/Corrosion	~		oductivity	0	
Serious Eye Damage/Irritation	~	STO	OT - Single Exposure	0	

Legend:

STOT - Repeated

Aspiration Hazard

Exposure

🗶 – Data available but does not fill the criteria for classification

✓ – Data required to make classification available

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SECTION 12 ECOLOGICAL INFORMATION

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Respiratory or Skin

sensitisation

Mutagenicity

Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
pentaerythritol tetraacrylate	LC50	96	Fish	4.768mg/L	3
pentaerythritol tetraacrylate	EC50	96	Algae or other aquatic plants	2.598mg/L	3
2-hydroxy- 2-methylpropiophenone	LC50	96	Fish	130.9150mg/L	3
2-hydroxy- 2-methylpropiophenone	EC50	48	Crustacea	>1190mg/L	2
2-hydroxy- 2-methylpropiophenone	EC50	72	Algae or other aquatic plants	0.640mg/L	2
2-bromo-2-nitropropan- 1,3-diol	LC50	96	Fish	20mg/L	4

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2-bromo-2-nitropropan- 1,3-diol	EC50	48	Crustacea	0.78mg/L	4
2-bromo-2-nitropropan- 1,3-diol	EC50	72	Algae or other aquatic plants	0.25mg/L	2

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
pentaerythritol tetraacrylate	LOW	LOW
2-hydroxy- 2-methylpropiophenone	HIGH	HIGH
2-bromo-2-nitropropan- 1,3-diol	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
pentaerythritol tetraacrylate	LOW (LogKOW = 2.267)
2-hydroxy- 2-methylpropiophenone	LOW (LogKOW = 1.0799)
2-bromo-2-nitropropan- 1,3-diol	LOW (LogKOW = -0.6408)

Mobility in soil

Ingredient	Mobility
pentaerythritol tetraacrylate	LOW (KOC = 19470)
2-hydroxy- 2-methylpropiophenone	LOW (KOC = 10)
2-bromo-2-nitropropan- 1,3-diol	HIGH (KOC = 1)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- ▶ Reuse
- ▶ Recycling
- Disposal (if all else fails)

Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ▶ 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 or consult manufacturer for recycling options.
- ► Consult State Land Waste Management Authority for disposal.
- ▶ Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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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

SECTION 15 REGULATORY INFORMATION

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

PENTAERYTHRITOL TETRAACRYLATE(4986-89-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

2-HYDROXY-2-METHYLPROPIOPHENONE(7473-98-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

2-BROMO-2-NITROPROPAN-1,3-DIOL(52-51-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

ISOTHIAZOLINONES, MIXED(96118-96-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

National Inventory	Status
Australia - AICS	N (isothiazolinones, mixed)
Canada - DSL	Y
Canada - NDSL	N (pentaerythritol tetraacrylate; 2-bromo-2-nitropropan-1,3-diol; isothiazolinones, mixed; 2-hydroxy-2-methylpropiophenone)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	N (isothiazolinones, mixed)
Japan - ENCS	N (isothiazolinones, mixed)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Υ
USA - TSCA	N (isothiazolinones, mixed)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No
isothiazolinones, mixed	55965-84-9, 96118-96-6

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.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The (M)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.

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