PRODUCT: Innocoat Beads Off NaturalSealer

SAFETY DATA SHEET (SDS)

SECTION 1: IDENTIFICATION OF SUBSTANCE & COMPANY DETAIL

Product

Product Name	Innocoat BEADS OFF Natural Sealer
HSNO approval	HSR002662
Approval Description	Surface Coatings and Colourants (Flammable) Group Standard 2017
UN number	1263

Recommended Uses: For sealing and protecting of cementitious and stone surfaces, particularly suited to pigmented and plain concrete.

Company Details

Company	Innovative Coatings NZ Ltd 37 Beach Road Richmond Nelson 7020
Phone	022 086 3584
Email	info@innovativecoatingsnz.com

EMERGENCY TELEPHONE NUMBER :0800 POISON (0800 764 766)

SECTION 2: HAZARD IDENTIFICATION

This material is hazardous according to health criteria of ERMA New Zealand

HSNO Classes	Hazard Statements	
3.1C	**H226**	Flammable liquid and vapour
6.1E (oral)	**H303**	May be harmful if swallowed
6.1E (dermal)	**H313**	May be harmful in contact with skin
6.9 (respiratory irritant)	**H335**	May cause respiratory irritation
6.3B	**H316**	Causes mild skin irritation
6.4A	**H320**	Causes eye irritation
9.1B	**H411**	Toxic to aquatic life with long lasting effects

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Symbols:

WARNING

Hazard statement:	**H226**	Flammable liquid and vapour
Prevention Precautionary Statement(s):	**P102**	Keep out of reach of children
	P103	Read label before use
	P104	Read Safety Data Sheet before use
	P210	Keep away from ignition sources. NO SMOKING
	P233	Keep container tightly closed
	P240	Ground/bond container and receiving equipment
	P241	Use explosion proof electrical equipment
	P242	Use only non-sparking tools
	P243	Take precautionary measures against static discharge
	P261	Avoid breathing vapours
	P264	Wash hands thoroughly after handling
	P270	Do not eat, drink or smoke when using this product
	P271	Use only outdoors or in a well-ventilated area
	P280	Wear protective gloves/protective clothing/ eye/face protection
	P309	IF exposed or concerned: Get medical advice/attention
Storage Precautionary Statement(s)	**P403**	Store in a well-ventilated place
	P235	Keep cool

Other

If in contact with water hydrolytic decomposition may occur to release small amounts of methanol

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SECTION 3: PHYSICAL COMPOSITION

Chemical Entity	CAS No	Proportion
Silane, trimethoxy (2,4,4-trimethylpentyl)	34396-03-7	<5%
Blend of solvent naphtha (petroleum)	64742-95-6/64742-88-7	balance

SECTION 4: FIRST AID MEASURES

IF exposed or concerned: Get medical advice / attention.
If medical advice is needed, have product container or label at hand.
If poisoning occurs, contact a doctor or the National Poison Information Centre.
Phone 0800 764 766 (0800 POISON) (24 hr emergency service)

First Aid measures

Inhalation: **If inhaled:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a doctor or Poison Centre if you feel unwell.

Skin contact: **If on skin:** Wash skin thoroughly with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. If skin irritation occurs: Get medical advice. Wash contaminated clothing before re use.

Ingestion: **If swallowed: DO NOT** induce vomiting. Call a doctor or POISON CENTRE. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Eye Contact: **If in eyes:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if possible. Continue to rinse for at least 10 minutes. If eye irritation persists: Get medical attention

Work place facilities: Eye wash and ready access to running water

Notes for medical personnel: Treat symptomatically.

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SECTION 5: FIRE FIGHTING MEASURES

Type of Hazard: Flammable liquid and vapor.
Fire Hazard properties: Vapours may form an explosive mixture in air which can be ignited by many sources, ie electrical motors, switches, pilot lights, open flames and static electricity.
Extinguishing media & method: Carbon dioxide, extinguishing powder, foam
Products of combustion: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps or low lying spaces, forming potentially explosive mixtures.
Recommended protective clothing: Self-contained breathing apparatus (SCBA). Non-flammable overalls, gloves, safety boots
Fire Fighting Advice: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool
Hazchem code: 3Y

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Stop the source of the leak if it is safe to do so. Shut off all possible sources of ignition Clear area of any unprotected personnel Wear protective equipment to prevent skin, eye and respiratory exposure. Work up wind or increase ventilation. Contain using sand, earth or vermiculite. Do not use sawdust. In case of a major spillage alert the Fire Brigade to location and provide a brief description of hazard. Prevent spillage from entering drains, sewers or water courses. If this does occur contact the regional authority immediately
Cleanup methods:	Use absorbent (soil, sand and/or other inert material). Collect and seal in properly labelled containers or drums for disposal. Mop up and collect any recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. Dispose of only in accordance with all regulations (see Section13)

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SECTION 7 HANDLING & STORAGE

Handling

Open containers cautiously as contents may be under pressure. Use only in a well-ventilated area. Keep containers sealed when not in use. Wear appropriate protection (see Section 10). Avoid skin and eye contact and inhalation of vapour. It is essential that anyone handling this product maintains a high standard of personal hygiene, i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

Storage

Store in a cool, dry well-ventilated area away from sources of ignition, oxidizing agents, foodstuffs and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected from physical damage. Inspect regularly for deficiencies such as damage and leaks. Containers must bear the name, HazChem code, UN number and flammability warning. Store out of reach of children.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Work place exposure standards

Exposure Limits No exposure standards have been established for this material. However, exposure standards for ingredients are stated below:

Substance	STEL(mg/m$^{3)}$	STEL(ppm)	TWA(mg/m^{3})	TWA(ppm)
Silane, trimethoxy(2,4,4-trimethylpentyl)	Data unavailable	Data unavailable	Data unavailable	Data unavailable
Solvent blend naptha(petroleum)	Data unavailable	Data unavailable	525	100
Methanol	328	250	262	200

Methanol may be released during curing.

TWA Time-weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life

STEL Short Term Exposure Limit – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day.

Application in the workplace

According to current knowledge these concentrations should neither impair the health, nor cause undue discomfort to, nearly all workers. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to, as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

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Engineering Controls
Flammable liquid, maintain adequate ventilation at all times.
Prevent accumulation of vapours in hollows or sumps. Eliminate any sources of ignition.
Elevated temperature or mechanical action may form vapours, mists or fumes, which may require local, exhaust ventilation systems.

Personal Protective Equipment (PPE)

Detail specifications for equipment

Clothing:

Suitable workwear should be worn to protect personal clothing, e.g. cotton overalls buttoned at the neck and wrists. When large quantities are handled PVC plastic or rubber aprons and boots are recommended.

Hand Protection:

Protective gloves are recommended. PVA or Viton/Butyl gloves are recommended. Replace frequently. Check for wear and tear before use. Open cuts or irritated skin should not be exposed to this material

Eye Protection:

Avoid contact with eyes.
Use safety glasses and/or chemical splash goggles if splashes are possible

Respiratory Protection:

If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Use a respirator with an organic vapour cartridge and a dust/mist filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

General hygiene:

It is essential that all who come into contact with this material maintain a high standard of personal hygiene, i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear viscous liquid with strong solvent odour
Melting Point:	N/A
Vapour Pressure:	approx. 2.2hPa@20^{o}C
Boiling Point:	145 – 200°C
Solubility in water:	Immiscible
Flammability Class:	3C
Extinguishing Media:	Foam, dry chemical, CO2
Specific Gravity:	.832g/ml
Freezing Point:	N/A
Evaporation Rate:	N/A
PH (% in water):	N/A
Flash Point:	41^{o}C
Auto Ignition Temp:	No data
Coefficient of cubic expansion:	N/A
Relative vapour Density:	N/A
Decomposition point:	N/A
Viscosity:	no data
Corrosiveness:	Non corrosive
Flammable Limits:	LEL: 0.8% UEL: 7.0%

SECTION 10 STABILITY AND REACTIVITY

Stability of the substance	Stable under normal conditions
Conditions to avoid	Heat, direct sunlight, open flames and other ignition sources. Prevent vapour accumulation.
Material to avoid	Strong alkalis, acids, nitrates and oxidising agents
Hazardous decomposition products	Methanol, carbon dioxide, carbon monoxide
Hazardous reactions	None known

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SECTION 11 TOXICOLOGICAL INFORMATION

Summary

If swallowed: can result in nausea, vomiting and central nervous system depression. If the vomit enters the lungs chemical pneumonia or varying degrees of pulmonary injury and possible death may occur.

If in eyes: may cause eye irritation, resulting in pain and conjunctivitis

If on skin: may cause skin irritation, causing redness, swelling or blistering

If inhaled: may cause respiratory irritation with coughing, nausea. Inhalation may also cause central nervous system depression with headaches, dizziness, drowsiness, incoordination

Chronic Toxicity: Prolonged exposure to hydrocarbons can cause nerve damage (CNS) and affect the liver and kidneys

Supporting Data

Acute Oral(rat): Using LD50s for ingredients, the calculated LD50 for the mixture is >5,000mg/kg. Data considered includes :Silane, trimethoxy(2,4,4-trimethylpentyl), >2,000mg/kg,Solvent Blend naptha(petroleum),>15,000mg/kg.

Dermal : No evidence of dermal toxicity

Inhalation LC50 (rat) Using LD50s for ingredients, the calculated LD50 for the mixture is >20mg/L. Data considered includes :Silane, trimethoxy(2,4,4-trimethylpentyl), >11.2 mg/L (4hr),Solvent Blend naptha(petroleum),>12mg/L

Skin Irritation:	Mild irritant
Eye Irritation:	Mild irritant
Skin Sensitisation:	Not expected to be a skin sensitizer
Chronic Mutagenicity:	Not mutagenic
Carcinogenicity:	Not a carcinogen
Fertility Impairment:	Not expected to impair fertility
Development Toxicity:	May cause slight fetotoxicity at doses, which are maternally toxic
Human Effects:	Prolonged/repeated contact may cause defatting of the skin, which can lead to dermatitis. Aspiration into lungs may cause chemical pneumonitis, which can be fatal.

SECTION 12 ECOLOGICAL INFORMATION

Summary

This mixture is toxic to aquatic organisms, may cause long-term adverse effects in the aquatic Environment. Prevent this material entering waterways, drains and sewers.

Supporting Data

Ecotoxicity:	Harmful to aquatic life.
Fish:	Toxic 1<LC/EC/IC50 <= 10mg/l
Aquatic Invertebrates:	Toxic 1<LC/EC/IC50 <= 10mg/l
Algae:	Toxic 1<LC/EC/IC50 <= 10mg/l
Degradability	No data
Bio accumulative Potential	No data
Terrestrial vertebrate	See acute toxicity
Biocidal	No data

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal information	Dispose of waste according to local and national regulations. Labels should not be removed from containers until they have been cleaned.
Relevant information	This is a flammable product and should be treated with care
Container Disposal	Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill for mild steel or incineration for polyethylene containers as appropriate. Do not incinerate closed containers

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SECTION 14 TRANSPORT INFORMATION

Transport according to NZS 5433 (Transport of Hazardous Substances on Land).
Considered a dangerous good for transport

UN Number:	1263	Proper shipping name	PAINT
Class	3	Packing Group	III
Hazchem Code	3(Y)	Precautions	Flammable Marine Pollutant

SECTION 15 REGULATORY INFORMATION

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO).
Approval code: HSR002662, Surface Coatings and Colourants (Flammable) Group Std 2017

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are;

SDS	To be available within 10 minutes where product is stored
Labelling	No removal of labels. Original label must be retained
Emergency plan	Required if >10,000L is stored
Approved handler	Not required
Tracking	Not required
Bunding & secondary containment	Required if >10,000L is stored
Signage	Required if >1,000L is stored
Location Test Certificate	Required if >500L (containers>5L), 1,500L (containers< or =5L), 250L (in use) is stored in any one location
Flammable zone	Must be established if >100L closed containers, 25L decanting, 5L (open occasionally), 1L (in use) stored in any one location
Fire Extinguisher	If >500L present

Note: The above workplace requirements apply if only this particular substance is present.
The complete set of controls for a location will depend on the classification and total quantities of Other substances present in that location.

Other Legislation

In New Zealand the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Safety at Work (General Risk and Workplace Management) Regulations 2016 and local Council Rules and Regional Council plans.

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SECTION 16 OTHER INFORMATION

Additional information	New Zealand National Poison Centre (24hours) 0800 POISON (764 766) New Zealand Emergency Services: 111

Review

Version Date:	16/10/2019
Review Date:	15/10/2024

Note

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