

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT TITAN

Material no.

Specification

Version

154289

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME : IGL Coatings™ ecocoat titan
FUNCTION : Photocatalyst coating with self-cleaning properties
COMPANY : Ominent Sdn Bhd
ADDRESS : No.7, Jalan Majistret U1/26, Hicom-Glenmarie Industrial Park, Seksyen U1, 40150 Shah Alam, Selangor.
PHONE : +60355690980
EMAIL ADDRESS : regulations@iglcoatings.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Health hazards

Eye irritation Category 2

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS07

Signal word

Warning

Hazard statements

H319 Causes serious eye irritation

Precautionary statements

P264 Wash exposed skin thoroughly after handling.
P280 Wear protective gloves, protective clothing, eye protection and face mask.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical attention.
P501 Dispose of contents/container to comply with local, state and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Chemical Name			Quantity
	EC No.	Index No.	REACH No.	
	Classification according to Regulation (EC) No. 1272/2008 (CLP)			
1126942-72-0	Aminomodified silicone			30-60%
	639-928-1	Not applicable	Not applicable	
	Not applicable			
7732-18-5	Water			30-60%
	231-791-2	Not applicable	Not applicable	
	Not applicable			
2530-83-8	3-glycidyl-oxypropyl-trimethoxy-silane			1-3%
	219-784-2	Not applicable	01-2119513212-58-0000	
	Eye Dam. 1: H318			
13463-67-7	Titanium dioxide			0.1-1%
	236-67-7	Not applicable	01-2119489379-17-0000	
	Not applicable			
134180-76-0	Polysiloxane			0.1-1%

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	603-798-4	Not applicable	Not applicable	
	Acute Tox. 4: H312+H332; Eye Irr. 2: H319; Chronic Aquatic Hazard 2: H411			

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Information

Take off contaminated clothing.

After Inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

After skin contact

Take off contaminated clothing. Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for at least 15 minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Wash out mouth with water provided the person is conscious. Never give anything by mouth to an unconscious person. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water spray, foam, dry powder or carbon dioxide.

5.2 Unsuitable extinguishing media

High volume water jet.

5.3 Special hazards arising from the substance or mixture

None known.

5.4 Advise for firefighters

Wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

5.5 Unusual Fire Hazards:

Not known.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (Refer to section 8).

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Fill into marked, sealable containers. To be disposed of in compliance with existing regulations.

6.4 Reference to other sections

Safe handling: See section 7

Personal protection equipment: See section 8

Disposal: See section 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (Refer to section 8).

Avoid contact with eyes and skin.

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Use with adequate ventilation.

Advice on protection against fire and explosion

Keep container closed when not in use.

Further information on handling

General protection and hygiene measures: Refer to section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with food and feeding stuffs.

Further information on storage conditions

Keep the packing dry and well-sealed to prevent contamination. Recommended storage temperature: 25°C.

7.3. Specific end use(s): Refer to section 1.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Chemical	Type	Exposure Limit Value	Source
Titanium dioxide	TWA	10mg/m ³	US. ACGIH

8.2 Exposure Control

8.2.1 General protective and hygienic measures: Wash hands before breaks and at the end of work.

8.2.2 Personal protective equipment:

Respiratory protection: In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter (filter type ABEK) or wear a self-contained respiratory apparatus.

Protection of hands:

Use protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection: Use chemical splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour)	: White opaque
Appearance (form)	: Liquid
Boiling Point	: 100 °C
Specific Gravity	: ~1.03 (at 20°C)
Density	: Not applicable
Melting Point	: Not applicable
Flash Point	: >95 °C
pH	: ~5
Evaporation Rate	: Not applicable
Solubility in Water	: Soluble in water

10. STABILITY AND REACTIVITY

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability: Stable under normal condition.

10.3 Possibility of hazardous reactions: No dangerous reactions known under normal processing.

10.4 Conditions to avoid: Extreme temperature and direct sunlight.

10.5 Incompatible materials: Strong acids

10.6 Hazardous decomposition products: No information available.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Specified substance: 3-glycidyl-oxypropyl-trimethoxy-silane

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Exposure route	Endpoint	Value	Species
Oral	LD50	7.5 mL/kg	Rat
Inhalation	LC50	5.3 mg/L	Rat
Dermal	LD50	3.97 mL/kg	Rabbit

Skin corrosion/irritation: Shall not be classified as skin irritant.

Eye irritation: May causes moderate eye irritation.

Respiratory or skin sensitization: Shall not be classified as respiratory or skin sensitizer.

Summary of evaluation of the CMR properties: Shall not be classified as a germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity – single exposure: No information available.

Specific target organ toxicity – repeated exposure: No information available.

Aspiration hazard: No information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Specified substance: Titanium dioxide

Endpoint	Value	Species	Exposure time	Source
LC50	870 - 1 100 µg/L	Freshwater fish	14 days	ECHA
LC50	500 mg/L	Aquatic invertebrates	48 hours	ECHA
NOEC	100 mg/L	Aquatic invertebrates	28 days	ECHA
EC50	100 mg/L	Aquatic algae	72 hours	ECHA

Specified substance: 3-glycidyl-oxypropyl-trimethoxy-silane

Endpoint	Value	Species	Exposure time	Source
LC50	45 mg/L	Freshwater fish	4 days	ECHA
LC50	266mg/L	Aquatic invertebrates	48 hours	ECHA
NOEC	82 mg/L	Aquatic invertebrates	21 days	ECHA
EC50	288 mg/L	Aquatic algae	4 days	ECHA

12.2 Process of degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB Assessment

No data available.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulation.

Sewage disposal-related information

Do not empty into drains/sewers/water supplies.

Do not contaminate ponds, waterways or ditches with chemicals or used container.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

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14. TRANSPORT INFORMATION

14.1 IATA-DGR

UN number : -
UN proper shipping name : Non dangerous goods
Transport hazard class(es) : -
Packing group : -
Environmental hazards : No
Special precautions for user : No data available.
Remarks : -

14.2 IMDG-Code

UN number : -
UN proper shipping name : Non dangerous goods
Transport hazard class(es) : -
Packing group : -
Environmental hazards : No
Marine pollutant : No
EmS Code : -

15. REGULATORY INFORMATION

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

US Federal Regulations

US. Toxic Substances Control Act (TSCA)

All chemical substances in this material are included on the TSCA Inventory of Chemical Substances.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Hazardous Substance List

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Emergency Planning and Community Right-To-Know Act (EPCRA) Section 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

Emergency Planning and Community Right-To-Know Act (EPCRA) Section 313 Toxics Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

US. State Regulation

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

EU Regulation

EU. Directive 2012/18/EU (SEVESO III) on Major Accident Hazards Involving Dangerous Substances, Annex I:

Not applicable.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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16. OTHER INFORMATION

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material use in combination with any other materials or any process, unless specified in the test.