

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT SHIELD



Material no.

Specification

Version

154320

1.18

Revision date

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

PRODUCT NAME : IGL Coatings™ ecocoat shield
FUNCTION : Hydro- & oleophobic and easy-clean agent surface modifier and gloss enhancer
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

Physical hazards

Flammable Liquid Category 4

Health hazards

Reproduction Toxicity Category 2

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS08

Signal word

Warning

Hazard statements

H227 Combustible liquid
H361 Suspected of damaging the unborn child

Precautionary statements

P201 Obtain special instruction before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from open flames and hot surfaces. No smoking.
P280 Wear protective gloves, protective clothing, eye protection and face mask.
P308+P313 IF exposed or concerned: Get medical attention.
P370+P378 In case of fire: Use extinguishing powder, alcohol-resistant foam or carbon dioxide to extinguish.
P403+P235 Store in well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of container to waste disposal.

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)			
63148-62-9	Polydimethylsiloxane			30-60%
	613-156-5	Not applicable	Not applicable	
	Repr. Tox. 2: H361			
25265-71-8	Dipropylene glycol			30-60%
	246-770-3	Not applicable	01-2119456811-38-0000	
	Not applicable			
507-55-1	Fluorine compound			0.1-1%
	208-076-9	Not applicable	Not applicable	

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	STOT RE 2: H373			
5593-70-4	Titanium tetrabutanolate			0.1-1%
	227-006-8	Not applicable	01-2119967423-33-0000	
	Flam. Liq 3: H226; Skin Irr. 2: H315; Eye Dam. 1: H318; STOT SE 3: H335			
7782-42-5	Graphene			0.1-1%
	231-955-3	Not applicable	01-2119486977-12-0000	
	Not applicable			

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Information

Take persons to a safe place. Observe self-protection for first aid.

After Inhalation

Keep the patient calm. If unconscious place in stable sideways position.

Protect against loss of sickness seek medical advice.

After skin contact

Remove contaminated or soaked clothing. Wash off immediately with soap and plenty of water.

In event of a visible skin change or other complaints, seek medical advice.

After contact with eyes

Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if presence and easy to do.

Seek medical advice in case of continuous irritation.

After ingestion

If conscious, give several small portions of water to drink. Do not induce vomiting.

Seek medical advice immediately and clearly identify substance.

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

Any relevant information can be found in other parts of this section.

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

In case of contact with water, material splits off methanol in larger amounts; therefore consider poisoning on methanol and also observe known period of latency of several days.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water mist, extinguishing powder, alcohol resistant foam, carbon dioxide, sand.

5.2 Unsuitable extinguishing media

Water Spray, Water jet.

5.3 Special hazards arising from the substance or mixture

None.

5.4 Advise for firefighters

Use respiratory protection independent of recirculated air.

5.5 Unusual Fire Hazards:

None.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (Refer to section 8).

Keep unprotected persons away. Avoid contact with eyes and skin.

Avoid inhaling mists and vapours. If material is released, indicate risk of slipping.

6.2 Environmental precautions

Prevent material from entering surface water, drains or sewers and soil.

Contain any fluid that runs out using suitable material (e.g. earth).

Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

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6.3 Methods and material for containment and cleaning up

Do not flush away with water.

For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose according to local regulations. Clean any slippery coating that remains using a detergent/soap solution.

Exhaust vapour.

6.4 Reference to other sections

Safe handling: Refer to section 7

Personal protection equipment: Refer to section 8

Disposal: Refer to section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (Refer to section 8).

Ensure adequate ventilation.

Keep away from incompatible substances in accordance with section 10.

Spilled substance increases risk of slipping.

Precautions against fire and explosion

Product can separate into methanol. Flammable vapours may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces.

Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging.

Cool endangered containers with water.

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.

Make sure there is no possibility of entering the ground.

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: 20-25 °C.

Protect against: Moisture

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

7.4. Information about the emptied container: Dispose as per local regulation.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional Information: The lists valid during the making were used as basis.

8.2 Exposure Control

8.2.1 General protective and hygienic measures:

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.

Do not eat, drink or smoke when handling.

8.2.2 Personal protective equipment:

Respiratory protection:

In case of long and strong exposure, use respirator with an ABEK filter.

Protection of hands:

Use protective gloves made of butyl rubber. Gloves suitable for up to 60 minutes' use. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tight fitting protective goggles.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	: 180-220 °C
Density	: 0.988 g/cm ³ (at 25 °C)
Flash Point	: 70 °C
pH	: Not applicable
Solubility in Water	: Virtually insoluble
Appearance (colour)	: Clear black
Appearance (form)	: Liquid
Odour	: Peculiar

10. STABILITY AND REACTIVITY

10.1 Reactivity: Not classified as a reactivity hazard.

10.2 Chemical stability: Stable under normal condition.

Thermal decomposition / conditions to avoid: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: Moisture, heat, open flames and other sources of ignition.

10.5 Incompatible materials: Oxidising agent, acids, water.

10.6 Hazardous decomposition products: When heated to temperatures above 150°C (300 F) in the presence of air, product can form formaldehyde vapours. Hazardous decomposition products will be formed upon contact with water or humid air.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Exposure route	Endpoint	Value	Species	Source
Oral	LD50	5087 mg/kg	Rat	ECHA
Dermal	LD50	2381 mg/kg	Rat	ECHA
Inhalation	LC50	5098 mg/L	Rat	ECHA

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

Respiratory or skin sensitization: No data available.

Summary of evaluation of the CMR properties: No data available.

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

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

Aspiration hazard: No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Process of degradability

No data available.

12.3 Bioaccumulative potential

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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

Material:

Recommendation: Dispose of according to regulations by incineration in a special waste incinerator.

Observe local/state/federal regulations.

Uncleaned packaging:

Recommendation: Completely discharged containers (no tear drops, no powder rest, scraped carefully).

Containers may be recycled or reused. Observe local/state/federal regulations.

Sewage disposal-related information

Do not empty into drains.

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.

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.

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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.

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.