

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT SHIELD

Material no.

Specification

Version

154320

1.0

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

PRODUCT NAME : IGL Coatings™ ecocoat shield
FUNCTION : Hydro & oleophobic, easy cleaning and gloss enhancer surface modifier
COMPANY : Ominent Sdn Bhd
ADDRESS : 6 Jalan Para U8/103, Bukit Jelutong 40150 Shah Alam, Selangor Darul Ehsan, Malaysia.
PHONE : +60378310980
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

H302 Harmful if swallowed

H315 Causes skin irritation

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS07

Hazard statements

H302 Harmful if swallowed

H315 Causes skin irritation

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P281 Use personal protective equipment as required

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

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.

P331 Do NOT induce vomiting

P332+P313: If skin irritation occurs: Get medical advice/attention.

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)			
2943-75-1	Triethoxy-n-octylsilane			20-50%
	220-941-2	Not applicable	Not applicable	
	Skin Irr. 2: H315			
13463-67-7	Titanium dioxide			0.1-3%
	215-280-1	Not applicable	Not applicable	
	Not applicable			

Full text of H and EUH statements: see section 16.

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

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

After contact with eyes

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

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. 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

Foam, carbon dioxide or dry powder extinguishers

5.2 Unsuitable extinguishing media

None

5.3 Special hazards arising from the substance or mixture

Hazardous toxic and irritating fumes or smoke may be emitted

Vapours may travel considerable distance to ignition source and flash back

5.4 Advice for firefighters

As in any fire, wear self-contained positive pressure breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

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

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated articles and floor according to the environmental legislation.

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).

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: 20°C

Protect against UV-radiation/sunlight and heat.

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

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Ingredients with limit values that require monitoring at the workplace

Contains no substances with occupational exposure limit values.

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:

Wear a respiratory mask with filter(s) AP or use a self-contained respirator.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

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: Goggles recommended during refilling

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	: 180-220 °C
Specific Gravity	: 0.9 (water = 1)
Flashpoint	: >65°C
pH	: N/A
Solubility in Water	: Insoluble
Appearance (color)	: Transparent liquid
Appearance (form)	: Liquid
Odour	: Low Odour

10. STABILITY AND REACTIVITY

10.1 Reactivity : No further relevant information available

10.2 Chemical stability : Stable

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

10.3 Possibility of hazardous reactions : No dangerous reactions known

10.4 Conditions to avoid : Sunlight, heat, open flames, high temperature, sparks, static electrical charge, other ignition sources

10.5 Incompatible materials : Oxidizers

10.6 Hazardous decomposition products : Material does not decompose at ambient temperature

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Exposure route	Endpoint	Value	Species	Source
Oral	LD50	5110 mg/kg	Rat	ECHA
Inhalation	LC50	250 mg/m ³	Rat	ECHA
Dermal	LD50	6730 mg/kg	Rabbit	ECHA

Skin corrosion/irritation : Moderate irritation (Human; EHC 122, 1993, DFGOT vol 14,2000)

Serious eye damage/eye irritation : Causes mild eye irritation (Rabbit;10mg; Mild (TXAPA 9 55 501, 1980)

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 data available

Specific target organ toxicity – repeated exposure : No data available

Aspiration hazard : Shall not be classified as presenting as aspiration hazard

Potential health effects

Inhalation Harmful if inhaled. Causes respiratory tract irritation.

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Ingestion Harmful if swallowed.
Skin Harmful if absorbed through skin. Causes skin irritation.
Eyes Causes eye irritation.

Signs and Symptoms of Exposure

Material may form a siloxane polymer on the skin, eyes, or in the lungs. In the event of direct contact of the liquid with these tissues, seek medical attention.

Additional Information

RTECS: VV4025000

12. ECOLOGICAL INFORMATION

12.1 Toxicity

According to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment

Aquatic toxicity (Acute)

Endpoint	Value	Species	Source	Exposure time
LC50	> 0.055 mg/L	Oncorhynchus mykiss (fish)	ECHA	96 hours
EC10	0.189 mg/L	Daphnia magna (water flea)	ECHA	21 days
EC50	> 0.049 mg/L	Daphnia magna (water flea)	ECHA	48 hours
EC50	> 0.13 mg/L	Pseudokirchneriella subcapitata (algae)	ECHA	72 hours

12.2 Process of degradability

Readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB Assessment

Data are not available

12.6 Other adverse effects

Harmful to aquatic life

Data are not 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.

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 UN number

ADR/RID: -

IMDG: -

IATA-DGR: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA-DGR: -

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14.4 Packaging group

ADR/RID: - IMDG: - IATA-DGR: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no

14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

14.7 Special precautions for user

No data available

15. REGULATORY INFORMATION

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

EU regulatory information

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII: not relevant

National regulatory information

Water contaminating class (D): Non contaminating

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.