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

PRODUCT NAME: IGL Coatings™ Ecocoat Enhancer
FUNCTION: Hydro & oleophobizing and easy clean agent surface modifier and gloss enhancer
COMPANY: Ominent Sdn Bhd
ADDRESS: 12, Jalan Saudagar Satu, U1/16A 40150 Shah Alam, Selangor Darul Ehsan, Malaysia
PHONE: +60178888289
EMAIL ADDRESS: sales@iglcoatings.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Regulation (EC) No. 1272/2008

GHS07
H302 Harmful if swallowed

2.2 Label Elements
Regulation (EC) No. 1272/2008

GHS07
Hazard statements
H302 Harmful if swallowed

Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other Hazards
A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature
Preparation on the base organofunctional silane system and water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical Name</th>
<th>Index No</th>
<th>REACH No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>78330-21-9</td>
<td>Polyoxyethylene alkyl ether</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>0.2-1.4%</td>
</tr>
<tr>
<td>63148-62-9</td>
<td>Poly(dimethylsiloxane)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>4-12%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

After Inhalation
If aerosol or mists are inhaled, take affected persons out into the fresh air. In all cases of doubt, or when symptoms persist, seek medical advise.
After skin contact
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 several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion
Rinse mouth thoroughly with water. Drink plenty of water (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
After absorbing large amounts of substance:
Administration of activated charcoal
Acceleration of gastrointestinal passage.

5. FIRE-FIGHTING MEASURES
5.1 Extinguishing media
Suitable extinguishing media: Water spray, foam, CO2, dry powder

Unsuitable extinguishing media: None known

5.2 Special hazards arising from the substance or mixture
None known

5.3 Advise 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 (e.g sand, silica gel, acid binder, universal binder, saw dust)
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
Do not inhale mist/aerosols. Avoid contact with skin and eyes

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: 20C
Protect against: UV-radiation/sunlight. heat.
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.

8.1 Exposure Control

Personal protective equipment:

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

Respiratory protection:
A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH’s "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Protection of hands:

Glove Material: for example, butyl-rubber
Material thickness: 0.5mm
Break through time: >= 480 min

Glove material: for example, fluorinated rubber (Viton)
Material thickness: 0.4mm
Break through time: >= 480 min

Material of gloves:
Selection of protective gloves to meet the requirements of specific workplaces. Suitability for specific workplaces should be clarified with protective glove manufacturers. The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use. Use impermeable gloves.

Skin and body protection:
A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Eye protection: Goggles recommended during refilling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (1013 hPa) (ASTM D-1120): 100 °C
Flash point (DIN EN ISO 2719): >95 °C
Specific Gravity: 1 (at 20°C)
Volatile Organic %: 0.0 %
pH (1000 g/l) (20C): 3–5 +/- 0.5
Evaporation Rate: not determined
Solubility in Water: Water soluble
Appearance (color): milky white liquid
Appearance (form): Fluid
Density (DIN 51757): 1.006 g/cm3 (20°C)
Odour: odourless

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: No further relevant information available

10.5 Incompatible materials: No further relevant information available
10.6 Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Exposure route</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>2000 mg/kg</td>
<td>Rat</td>
<td>ECHA</td>
</tr>
<tr>
<td>Inhalation</td>
<td>LC50</td>
<td>5.5 mg/l /4h/ dust/mist</td>
<td>Rat</td>
<td>ECHA</td>
</tr>
</tbody>
</table>

Acute oral toxicity: The substance or mixture has no acute oral toxicity
Skin corrosion/irritation: Shall not be classified as corrosive/irritant to skin
Serious eye damage/eye irritation: No 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: Shall not be classified as a specific target organ toxicant (single exposure)
Specific target organ toxicity – repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure)
Aspiration hazard: Shall not be classified as presenting as aspiration hazard

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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

Aquatic toxicity (Acute)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Source</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>1000 mg/l</td>
<td>Zebra Fish</td>
<td>ECHA</td>
<td>96 hours</td>
</tr>
<tr>
<td>LC0</td>
<td>1000 mg/l</td>
<td>Zebra Fish</td>
<td>ECHA</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Aquatic toxicity (chronic)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Source</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>&gt;1000 mg/l</td>
<td>Microorganism</td>
<td>ECHA</td>
<td>30 min</td>
</tr>
<tr>
<td>NOEC</td>
<td>23 mg/l</td>
<td>Fish</td>
<td>ECHA</td>
<td>34 d</td>
</tr>
<tr>
<td>LOEC</td>
<td>50 mg/l</td>
<td>Fish</td>
<td>ECHA</td>
<td>34 d</td>
</tr>
<tr>
<td>Growth((#EbCx))10%</td>
<td>318.9 mg/l</td>
<td>Microorganism</td>
<td>ECHA</td>
<td>17 h</td>
</tr>
</tbody>
</table>

12.2 Process of degradability

The substance is readily biodegradable
Theoretical Oxygen demand: 2.2 mg/mg
Theoretical Carbon dioxide: 2.548 mg/mg

<table>
<thead>
<tr>
<th>Process</th>
<th>Degradation rate</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide generation</td>
<td>62%</td>
<td>28 d</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential
Does not significantly accumulate in organisms

12.4 Mobility in soil
Adsorption on the floor: low

12.5 Results of PBT and vPvB Assessment
Data are not available

12.6 Other adverse effects
Data are not available
13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods
This material and its container must be disposed of as hazardous waste. 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

IMDG  Not dangerous goods
IATA  Not dangerous goods

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.