

SAFETY DATA SHEET

IGL Coatings™ Ecocoat Enhancer

Material no.

Specification

Version

154312

1.13

Revision date

Print date

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igl coatings™

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

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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

CAS No	Chemical Name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 (CLP)			
78330-21-9	Polyoxyethylene alkyl ether			0.2-1.4%
	Not applicable	Not applicable	Not applicable	
	Not applicable			
63148-62-9	Poly(dimethylsiloxane)			4-12%
	Not applicable	Not applicable	Not applicable	
	Not applicable			

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 advice.

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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.

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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/cm ³ (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

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10.6 Hazardous decomposition products : No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Exposure route	Endpoint	Value	Species	Source
Oral	LD50	2000 mg/kg	Rat	ECHA
Inhalation	LC50	5.5mg/l /4h/ dust/mist	Rat	ECHA

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)

Endpoint	Value	Species	Source	Exposure time
LC50	1000mg/l	Zebra Fish	ECHA	96 hours
LC0	1000mg/l	Zebra Fish	ECHA	96 hours

Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
LC50	> 1000mg/l	Microorganism	ECHA	30 min
NOEC	23mg/l	Fish	ECHA	34 d
LOEC	50mg/l	Fish	ECHA	34 d
Growth(#{#EbCx})10%	318.9mg/l	Microorganism	ECHA	17 h

12.2 Process of degradability

The substance is readily biodegradable

Theoretical Oxygen demand : 2.2 mg/mg

Theoretical Carbon dioxide : 2.548 mg/mg

Process	Degradation rate	Time
Carbon dioxide generation	62%	28 d

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

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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.