

# SAFETY DATA SHEET

## IGL COATINGS™ ECOCOAT HEADLIGHT



Material no.

Specification

Version

154291

1.18

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

PRODUCT NAME : IGL Coatings™ ecocoat headlight  
FUNCTION : UV absorber for polycarbonate and plastic  
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 hazard

Flammable liquid Category 2

##### Health hazard

Acute toxicity (Inhalation) Category 5

Skin irritation Category 2

Eye irritation Category 2

Specific Target Organ Toxicity-Single Exposure Category 3

#### 2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS02



GHS07

##### Signal word

Danger

##### Hazard statements

H225 Highly flammable liquid and vapour

H315 Causes skin irritation

H319 Causes serious eye irritation

H332 Harmful if inhaled

H336 May cause drowsiness or dizziness

##### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof (electrical/ventilating/lighting) equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/ fume/gas/mist/vapours/ spray.

P264 Wash exposed skin thoroughly after handling.

P271 Use only outdoor or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

P302+P352 IF ON SKIN: Wash with plenty of water

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

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P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use fire extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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)			
110-54-3	Hexane			15-40%
	203-777-6	601-037-00-00	01-2119480412-44-0001	
	Flam. Liq. 2: H225; Skin Irr. 2: H315; Asp. Tox. 1: H304; Repr. 2: H361; STOT SE. 3: H336; STOT RE. 2: H373; Aquatic Chronic 2: H411			
2943-75-1	Triethoxyoctylsilane			15-40%
	220-941-2	Not applicable	01-2119972313-39-0000	
	Acute Tox. 4: H332; Eye Irr: H319			
68037-85-4	Siloxanes and silicones			10-30%
	614-229-4	Not applicable	Not applicable	
	Flam. Liq. 3: H226			

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General Information

Take off contaminated clothing.

##### After Inhalation

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

##### After skin contact

Remove product from skin with dry cloth or towel, and wash exposed area with detergent.

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

##### After contact with eyes

Immediately flush with water for at least 15 minutes. Remove contact lenses, if present and easy to do.

In case of troubles or persistent symptoms, consult an ophthalmologist.

##### After ingestion

Wash out mouth with water provided 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

Foam, dry chemical or carbon dioxide.

#### 5.2 Unsuitable extinguishing media

Not known.

#### 5.3 Special hazards arising from the substance or mixture

Flammable liquid.

Hazardous toxic and irritating fumes or smoke may be emitted.

Vapours may travel considerable distance to ignition source and flash back.

#### 5.4 Advise for firefighters

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As in any fire, wear normal protective equipment (full bunker gear) and positive-pressure and 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

Shut off all ignition sources.

Contain the spill or leak.

Scrape up with rag and place in container.

### 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).

Avoid contact with eyes and skin.

Use only with adequate ventilation.

#### Advice on protection against fire and explosion

Keep container closed when not in use.

Keep away from heat, sparks and flame.

#### 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

Store in a cool place below 40°C.

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.

Protect against UV-radiation/sunlight or heat.

Static electricity may accumulate and cause a fire hazard.

Recommended storage temperature: 20-25°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:

OSHA Final limits : TWA = 500 ppm, 1800 mg/m<sup>3</sup> [Hexane]

ACGIH TLV(s) : TWA = 50 ppm, 176 mg/m<sup>3</sup> (skin irritation)

: MAK = 50 ppm [Hexane]

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

### 8.2 Exposure Control

#### 8.2.1 General protective and hygienic measures:

Wash hands before breaks and at the end of work. Ensure adequate ventilation.

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### 8.2.2 Personal protective equipment:

#### Respiratory protection:

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Protection of hands:

Use chemical resistance glove. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Example of suitable chemical protective gloves include Silver shield (TM). 4H(TM), butyl rubber, fluorinated rubber or PVA (4H) or other appropriate gloves/ gauntlets. 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/safety glasses are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point	: 69 °C	(Hexane)
Vapour pressure	: 16 kPa (at 20 °C)	(Hexane)
Density	: 0.8 g/ml (at 20 °C)	
Melting point	: -95 °C	(Hexane)
Flash point	: -22 °C	(Hexane)
Auto-ignition temperature	: 225 °C	(Hexane)
pH	: 6.5-7.5	
Solubility in water	: It is not easy to be melted	
Appearance (colour)	: Clear colorless	
Appearance (form)	: Liquid	
Odour	: Peculiar	

## 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.

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

**10.5 Incompatible materials:** Oxidizing agent.

**10.6 Hazardous decomposition products:** Carbon monoxides carbon oxides, silicon dioxide, formaldehyde.

**10.7 Hazardous polymerization:** Will not occur.

Methanol (flammable and poisonous liquid). Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds, silicon dioxide and formaldehyde.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Exposure route	Endpoint	Value	Species	Source
Oral	LD50	24-49 mL/kg	Rat	ECHA
Inhalation	LC50	5000 ppm	Rat	ECHA
Inhalation	LC50	73 860 ppm	Rat	ECHA
Dermal	LD50	5 mL/kg	Rabbit	ECHA

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**Skin corrosion/irritation:** Moderate irritation.

**Serious eye damage/eye irritation:** Causes mild eye irritation.

**Respiratory or skin sensitization:** No data available.

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

**Specific target organ toxicity – single exposure:** May cause drowsiness and dizziness.

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

**Aspiration hazard:** No data available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Specified substance: Hexane**

Endpoint	Value	Species	Exposure time	Source
LL50	12.51 mg/L	Fish	4 days	ECHA
NOELR	2.8 mg/L	Fish	28 days	ECHA
EL50	21.85 mg/L	Aquatic Invertebrates	48 h	ECHA
NOELR	4.888 mg/L	Aquatic Invertebrates	21 days	ECHA
EL50	9.285 mg/L	Aquatic algae and cyanobacteria	72 h	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

Can be burned in chemical incinerator equipped with afterburn and scrubber but exert extra care in igniting as this product is very flammable.

#### **Sewage disposal-related information**

Do not empty into drains.

Do not dispose of the emptied container unless the contents have been completely removed and container has been flushed with a clean neutral solvent and then dried up. Do not dispose the emptied container unlawfully.

### 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

: 1263

UN proper shipping name

: Paint-related materials

Transport hazard class(es)

: 3

Packing group

: II

Environmental hazards

: No

Special precautions for user

: No data available.

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Remarks

: -

### 14.2 IMDG-Code

UN number

: 1263

UN proper shipping name

: Paint-related materials

Transport hazard class(es)

: 3

Packing group

: II

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

This product contains the following substance subject to the CERCLA Hazardous Substance List

Component	CAS No.
Hexane	110-54-3

##### 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

This product contains the following substance subject to the reporting requirements of EPCRA Section 313

Component	CAS No.
Hexane	110-54-3

##### 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



**Warning:** This product can expose you to chemicals including, hexane, which is known to the State of California to cause reproductive harm.

#### 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

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

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