

# SAFETY DATA SHEET

## IGL COATINGS™ ECOCLEAR AEGIS AE1



Material no.

Specification

154328

Revision date

10.6.2021

Version

1.0

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

PRODUCT NAME : IGL Coatings™ Ecoclear Aegis AE1  
FUNCTION : Anti-corrosion coating  
COMPANY : Ominent Sdn Bhd  
ADDRESS : No.7, Jalan Majistret U1/26, Hicom-Glenmarie Industrial Park, 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 3

##### Health hazards

Skin Irritation Category 3

Skin sensitisation Category 1

Serious eye damage Category 1

#### 2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS02



GHS05

##### Signal word

Danger

##### Hazard statements

H226 Flammable liquid and vapour  
H316 May cause mild skin irritation  
H317 May cause an allergic skin reaction  
H318 Causes serious eye damage

##### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing vapours/spray.  
P264 Wash hand thoroughly after handling.  
P272 Contaminated work clothing shall not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of water  
P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see Section 4).  
P333 + P317 If skin irritation or rash occurs: Get medical help.  
P337 + P317 If eye irritation persists: Get medical help.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

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P370+P378

In case of fire: use foam/dry chemical/carbon dioxide to extinguish.

P403+P233+P235

Store in a well-ventilated place. Keep container tightly closed and keep cool.

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)			
CBI	Silicone Epoxy Hybrid Resin			>60%
	Not applicable	Not applicable	Not applicable	
	Skin Sens. 1: H317			
30583-72-3	Hydrogenated Bisphenol A Resin			10-30%
	500-070-7	Not applicable	Not applicable	
	Skin Sens. 1: H317			
123-86-4	Butyl Acetate			3-5%
	204-658-1	Not applicable	01-2120800352-71-0000	
	Flam. Liq. 3: H226; STOT SE 3: H336			
2530-83-8	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane			1-3%
	219-784-2	Not applicable	01-2119513212-58-0000	
	Eye Dam. 1: H318			
5131-66-8	3-Butoxypropan-2-ol			1-3%
	225-878-4	Not applicable	01-2119475527-28-0000	
	Skin Irr. 2: H315; Eye Irr. 2: H319			
67-56-1	Methanol			0.1-1%
	200-659-6	Not applicable	01-2120762095-54-0000	
	Flam. Liq. 2: H225; Acute Tox. 3: H301+H311+H331; STOT SE 1:H370			

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General Information

Take off contaminated clothing immediately.

##### 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

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

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

##### After ingestion

Wash out mouth with water provided the 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

Symptoms: The following symptoms may occur: Allergic symptoms

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

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Suitable extinguishing media

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Foam, dry powder, carbon dioxide, water spray.

### 5.2 Unsuitable extinguishing media

Full water jet.

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

In the event of fire the following can be released: Carbon monoxide, carbon dioxide, silicon dioxide, silica fumes. Can form explosive vapor air mixture. Under certain conditions of combustion traces of other toxic substances cannot be excluded.

### 5.4 Advise for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.5 Unusual Fire Hazards:

Not known.

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## 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

Small spills can be flushed with large amounts of water; larger spills should be collected for disposal.

Take up with absorbent material (e.g. sand, kieselguhr, universal binder).

Dispose of absorbed material in accordance with the regulations.

### 6.4 Reference to other sections

Safe handling: Refer to section 7

Personal protection equipment: Refer to section 8

Disposal: Refer to section 13

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Advice on safe handling

Do not inhale gases/vapours/aerosols.

Avoid contact with eyes and skin.

Use with adequate ventilation.

#### Advice on protection against fire and explosion

Flammable.

Keep container tightly closed and in a well-ventilated place.

Keep away from open flames and hot surfaces. No smoking.

#### 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: 20-25°C.

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

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### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

#### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Component	Value type (Form of exposure)	Control parameter	Basis
Butyl acetate	TWA	150 ppm 713 mg/m <sup>3</sup>	MY PEL
	TWA	150 ppm	ACGIH
	STEL	200 ppm	ACGIH
Methanol	LTEL	200 ppm, 260 mg/m <sup>3</sup>	EU OEL

#### 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. No smoking.

##### 8.2.2 Personal protective equipment:

###### Respiratory protection:

In the case of vapour formation, use a respirator with an approved filter.

Use self-contained breathing apparatus in high vapour concentration.

###### Protection of hands:

Wear gloves made of butyl or nitrile rubber. 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:

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.

**Eye protection:** Safety goggles is recommended.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour)	: Transparent black
Appearance (form)	: Liquid
Odour	: Solvent odour
Boiling Point	: 126 °C (1,013 hPa)
Vapour Pressure	: Data not available.
Vapor Density	: Data not available
Density	: 1.102 g/cm <sup>3</sup>
Melting Point	: Not applicable
Flash Point	: 27 °C
pH	: Not applicable.
Evaporation Rate	: No data available.
Solubility in Water	: Insoluble (Hydrolysed with water)

### 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** Product is stable under normal condition.

**10.2 Chemical stability:** Product is stable under normal storage condition. Avoid in contact with air and moisture. Hydrolysis might occur when in contact with moisture.

**10.3 Possibility of hazardous reactions:** Hydrolysis may result in formation of methanol depending on the specific conditions of use.

**10.4 Conditions to avoid:** Moisture.

**10.5 Incompatible materials:** Strong oxidizing agents.

**10.6 Hazardous decomposition products:** Unknown.

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### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

Exposure route	Endpoint	Value
Oral	LD50	6200 mg/kg
Inhalation	LC50	62.12 mg/L (4h)
Dermal	LD50	6580 mg/kg

**Chronic toxicity:** No information available.

**Skin corrosion/irritation:** May cause skin irritation.

**Eye irritation:** May cause serious eye damage.

**Respiratory or skin sensitization:** May cause skin sensitisation.

**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 information available.

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

**Aspiration hazard:** No information available.

### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

##### Specified substance: Butyl acetate

Endpoint	Value	Species	Exposure time	Sources
LC50	18 mg/L	Freshwater fish	96 hours	ECHA
EC50/LC50	32 – 44 mg/L	Aquatic invertebrates	48 hours	ECHA
NOEC	23 mg/L	Aquatic invertebrates	21 days	ECHA
EC50	397 – 674.7 mg/L	Freshwater algae	48 hours	ECHA

##### Specified substance: [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Endpoint	Value	Species	Exposure time	Sources
LC50	45 mg/L	Freshwater fish	96 hours	ECHA
EC50/LC50	266 mg/L	Aquatic invertebrates	48 hours	ECHA
NOEC	82 mg/L	Aquatic invertebrates	21 days	ECHA
EC50	288 mg/L	Freshwater algae	96 hours	ECHA

##### Specified substance: 3-butoxypropan-2-ol

Endpoint	Value	Species	Exposure time	Sources
LC50	560 mg/L	Freshwater fish	96 hours	ECHA
NOEC	560 mg/L	Freshwater algae	96 hours	ECHA

##### Specified substance: Methanol

Endpoint	Value	Species	Exposure time	Sources
EC50	22 g/L	Freshwater algae	96 hours	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

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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 afterburner 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 the 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 : III  
Environmental hazards : No  
Special precautions for user : -  
Remarks : -

### 14.2 IMDG-Code

UN number : 1263  
UN proper shipping name : Paint-related materials  
Transport hazard class(es) : 3  
Packing group : III  
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.
Butyl acetate	123-86-4
Methanol	67-56-1

##### Superfund Amendments and Reauthorization Act of 1986 (SARA)

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### 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.
Methanol	67-56-1

### 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, Methanol, 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.

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## 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.