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

PRODUCT NAME : IGL Coatings™ ecoclean gluoff
FUNCTION : Adhesive and glue remover
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

**Health hazards**

| | |
|---|---|
| Eye damage | Category 1 |
| Skin Irritation | Category 3 |

**Environmental hazard**

| | |
|---|---|
| Aquatic - Acute | Category 3 |

### 2.2 Label Elements

Regulation (EC) No. 1272/2008

GHS05

**Signal word**

Danger

**Hazard statements**

| | |
|---|---|
| H316 | Causes mild skin irritation. |
| H318 | Causes serious eye damage. |
| H402 | Harmful to aquatic life |

**Precautionary statements**

| | |
|---|---|
| P264 | Wash hand thoroughly after handling. |
| P273 | Avoid release to the environment. |
| 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. |
| P332+P317 | If skin irritation occur: Get medical help. |
| P337+P317 | If eye irritation persists: Get medical help. |
| 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) | | | |
| 7732-18-5 | Water | | | 88.93% |

| | | | | |
|---|---|---|---|---|
| | 231-791-2 | Not applicable | Not applicable | |
| | Not applicable | | | |
| 111-76-2 | 2-butoxyethanol | | | 3.00% |
| | 203-905-0 | 603-014-00-0 | Not applicable | |
| | Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2 H315 | | | |
| 68439-46-3 | Ethoxylated alcohols (C=9-11) | | | 4.00% |
| | 614-482-0 | Not applicable | Not applicable | |
| | Acute Tox. 4: H302; Eye Dmg. 1: H318; Aquatic Acute 2: H401 | | | |
| 67-63-0 | 2-Propanol | | | 3.00% |
| | 200-661-7 | 603-117-00-0 | Not applicable | |
| | Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3:H336 | | | |
| 497-19-8 | Sodium carbonate | | | 0.50% |
| | 207-838-8 | 011-005-00-2 | Not applicable | |
| | Eye Irrit. 2: H319 | | | |
| 6834-92-0 | Disodium metasilicate | | | 0.25% |
| | 229-912-9 | 014-010-00-8 | Not applicable | |
| | Skin Corr. 1B: H314; STOT SE 3: H335 | | | |
| 147170-44-3 | Cocamidopropyl Betaine | | | 0.25% |
| | 931-333-8 | Not applicable | Not applicable | |
| | Eye Dmg. 1: H318; Aquatic Chronic 3; H412 | | | |
| 10043-35-3 | Boric acid | | | 0.04% |
| | 233-139-2 | 005-007-00-2 | Not applicable | |
| | Repr. 1B: H360 | | | |
| 1310-73-2 | Sodium hydroxide | | | 0.03% |
| | 215-185-5 | 011-002-00-6 | Not applicable | |
| | Acute Tox. 4: H312; Skin Corr. 1A: H314 | | | |

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**General Information**

Take off contaminated clothing**.**

**After Inhalation**

Move to fresh air. Call a physician if symptoms develop or persist.

**After skin contact**

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

**After contact with eyes**

Rinse immediately with plenty of water for at least 15 minutes.

Remove contact lenses, if presence and easy to do. Get medical attention if irritation develops and persists.

**After ingestion**

Rinse mouth with water. Immediately after ingestion: give lots of water to drink.

Do not induce vomiting. Get medical attention immediately.

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**

Alcohol-resistant foam, dry chemical powder, carbon dioxide, water mist.

**5.2 Unsuitable extinguishing media**

Solid water jet ineffective as extinguishing medium.

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

Hazardous combustion products may include carbon monoxide.

**5.4 Special firefighting procedure**

Move container from fire area if you can do so without risk. Water runoff can cause environmental damage.

**5.5 Advise for firefighters**

Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

**5.6 Unusual Fire Hazards:**

Not known.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Stop engines and no smoking. No naked flames or sparks. Sparks- and explosion-proof appliances and lighting equipment. Keep container closed. Wash contaminated clothes. Wear personal protection equipment (Refer to section 8).

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

**6.3 Methods and material for containment and cleaning up**

**Large spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas.

**Small spills:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**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).

Use care in handling/storage. Avoid release to the environment. Do not empty into drain. Do not breathe the mist or vapor. Provide adequate ventilation. Keep away from naked flame/heat. Keep away from ignition sources/sparks.

**Advice on protection against fire and explosion**

No information available.

**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, dry place out of direct sunlight.

**Advice on storage compatibility**
Do not store together with food and feeding stuffs.
**Further information on storage conditions**
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:**

**Specified substance: 2-propanol**

| | | |
|---|---|---|
| ACGIH | ACGIH TWA | 200 ppm (2-propanol; USA; Time-weighted average exposure limit 8 hrs; TLV-Adopted value) |
| ACGIH | ACGIH STEL | 400 ppm (2-propanol; USA; Short time value; TLV-Adopted value) |
| OSHA | OSHA PEL (TWA) | 980 mg/m$^3$ |
| OSHA | OSHA PEL (TWA) | 400 ppm |

**Specified substance: 2-butoxyethanol**

| | | |
|---|---|---|
| ECHA | 8 hours TWA | 20 ppm |

**Specified substance: Sodium Hydroxide**

| | | |
|---|---|---|
| OSHA | OSHA PEL | 2 ppm |

### 8.2 Exposure Control

#### 8.2.1 General protective and hygienic measures:

Wash hands before breaks and immediately after handling the product with mild soap and water.
Wash contaminated clothes before reuse.
Handle in accordance with good industrial hygiene and safety practice.

#### 8.2.2 Personal protective equipment:

**Respiratory protection:**
Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.
**Protection of hands:**
Using glove where its material must be impermeable and resistant to the product/ the substance/ the preparation.
**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. Gloves made from butyl rubber (breakthrough times >480 minutes), Neoprene™ rubber, nitrile rubber (breakthrough times up to 480 minutes) can be used.
**Penetration time of glove material:**
The exact break through time must be found out by the manufacturer of the protective gloves and has to be observed.
**Eye protection:** Safety glasses/goggles with side shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Boiling point | : 100 °C |
| Flash point | : 65°C |
| Specific Gravity | : 1.00 g/cm$^3$ |
| Melting point | : Not applicable |
| pH | : 11.0 – 12.0 |
| Solubility in water | : Soluble |
| Appearance (colour) | : Yellow |
| Appearance (form) | : Liquid |

Odour : Orange

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity**: No further relevant information available.
**10.2 Chemical stability**: Stable under normal condition. May form peroxides on prolonged exposure to air and light. 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**: Avoid high temperatures and sources of ignition. Avoid prolonged exposure to air/oxygen and light.
**10.5 Incompatible materials**: Strong oxidizing agents.
**10.6 Hazardous decomposition products**: Oxides of carbon on combustion.

## 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

| Exposure route | Endpoint | Value |
|---|---|---|
| Oral | LD50 | 15853 mg/kg |

**Skin corrosion/irritation:** May causes mild skin irritation.
**Eye damage:** Causes serious eye damage.
**Respiratory or skin sensitization:** Shall not be classified as respiratory or skin sensitization.
**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**: May causes drowsiness or dizziness.
**Specific target organ toxicity – repeated exposure**: No data available.
**Aspiration hazard**: No data available.

## 12. ECOLOGICAL INFORMATION

**12.1 Aquatic Toxicity**

**Specified substance: 2-propanol**

| Endpoint | Value | Species | Exposure time | Source |
|---|---|---|---|---|
| LC50 | 9.64 g/L | Freshwater fish | 4 days | ECHA |
| EC50/LC50 | 10 g/L | Aquatic Invertebrates | 24 hours | ECHA |
| EC10 or NOEC | 1.8 g/L | Freshwater algae | 7 days | ECHA |

**Specified substance: 2-butoxyethanol**

| Endpoint | Value | Species | Exposure time | Source |
|---|---|---|---|---|
| LC50 | 1474 mg/L | Freshwater fish | 96 hours | ECHA |
| LC50 | 1250 mg/L | Marine water fish | 96 hours | ECHA |
| NOEC | 100 mg/L | Fish | 14 days | ECHA |
| EC50 | 1550 - 1800 mg/L | Aquatic invertebrates | 48 hours | ECHA |
| EC10/LC10 or NOEC | 100 mg/L | Aquatic invertebrates | - | ECHA |

**Specified substance: Ethoxylated alcohols (C=9-11)**

| Endpoint | Value | Species | Exposure time | Source |
|---|---|---|---|---|
| EC50 | 140 mg/L | Microorganisms | 3 hours | ECHA |

**Specified substance:** Cocamidopropyl Betaine

| Endpoint | Value | Species | Exposure time | Source |
|---|---|---|---|---|
| EC50 | 1.5 mg/L | Freshwater Algae | 4 days | ECHA |
| NOEC | 0.3 mg/L | Freshwater Algae | 3 days | 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**
Dispose of contents/container in accordance with local/regional/national/international regulation.
**Sewage disposal-related information**
Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.
**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**
Do not discharge into surface water. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Please consider the relevant national or regional provisions.

## 14. TRANSPORT INFORMATION

**14.1 IATA-DGR**

| | |
|---|---|
| UN number | : - |
| UN proper shipping name | : Non dangerous goods |
| Transport hazard class(es) | : - |
| Packing group | : - |
| Environmental hazards | : No |
| Special precautions for user | : No data available. |
| Remarks | : - |

**14.2 IMDG-Code**

| | |
|---|---|
| UN number | : - |
| UN proper shipping name | : Non dangerous goods |
| Transport hazard class(es) | : - |
| Packing group | : - |
| 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**

| Component | CAS No. |
|---|---|
| Sodium hydroxide | 1310-73-2 |

**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**

| Component | CAS No. |
|---|---|
| 2-propanol | 67-63-0 |

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CRF 68.130)**

None present or none present in regulated quantities.

**US. State Regulation**

**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**EU Regulation**

**EU. Directive 2012/18/EU (SEVESO III) on Major Accident Hazards Involving Dangerous Substances, Annex I:**

Not applicable.

**Korea Regulations**

KECI: All chemical substances in this material are included and in compliance with the KECI inventory.
K-REACH: None present or none present in regulated quantities.

**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.