

SAFETY DATA SHEET

IGL COATINGS™ ECOCLEAN MULTI

Material no.

Specification

Version

154298

Revision date

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

PRODUCT NAME : IGL Coatings™ ecoclean multi
FUNCTION : All-purpose cleaner
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

Health hazards

Eye Irritation Category 2
Skin Irritation Category 3

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS07

Signal Word

Warning

Hazard statements

H316 Causes mild skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P264 Wash hand thoroughly after handling.
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 | | | >90% |
| | 231-791-2 | Not applicable | Not applicable | |
| | Not applicable | | | |
| 111-76-2 | 2-butoxyethanol | | | 3-5 % |
| | 203-905-0 | 603-014-00-0 | Not applicable | |
| | Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 | | | |

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| | | | | |
|-------------|---|----------------|----------------|--------|
| 68439-46-3 | Ethoxylated alcohols (C=9-11) | | | 1-3% |
| | 614-482-0 | Not applicable | Not applicable | |
| | Acute Tox. 4: H302; Eye Dmg. 1: H318; Aquatic Acute 2: H401 | | | |
| 497-19-8 | Sodium carbonate | | | 1-3% |
| | 207-838-8 | 011-005-00-2 | Not applicable | |
| | Eye Irrit. 2: H319 | | | |
| 6834-92-0 | Disodium metasilicate | | | 0.1-1% |
| | 229-912-9 | 014-010-00-8 | Not applicable | |
| | Skin Corr. 1B: H314; STOT SE 3: H335 | | | |
| 147170-44-3 | Cocamidopropyl Betaine | | | 0.1-1% |
| | 931-333-8 | Not applicable | Not applicable | |
| | Eye Dmg. 1: H318; Aquatic Chronic 3: H412 | | | |

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Information

Take off contaminated clothing.

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

Immediately flush eye with large quantities of water for at least 15 minutes while holding the eye open.

Remove contact lenses, if presence and easy to do. Avoid contaminating unaffected eye.

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

After ingestion

Rinse mouth thoroughly with water. 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

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

Water in a jet.

5.3 Special hazards arising from substance or mixture

Hazardous combustion products may include carbon monoxide.

5.4 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.5 Unusual Fire Hazards:

None.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (Refer to section 8).

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6.2 Environmental precautions

Keep away from drains, water and soil.

Advise authorities if spilled material has entered water courses or sewer or has contaminated soil or vegetation.

6.3 Methods and material for containment and cleaning up

Absorb or contain liquid with sand, earth or spill control material.

Collect and place in a labelled sealable container for subsequent safe disposal.

Flush contaminated area with plenty of water. Put leaking containers in a labelled drum or over-drum.

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 skin. Do not breathe vapour.

Only use in well ventilated areas.

Keep container tightly closed when not in use.

Advice on protection against fire and explosion

Not flammable.

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

Storage area should be cool and dry. Keep away from direct sunlight.

Keep in a well-ventilated place.

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:

- i) 2-butoxyethanol: 20 ppm (8hr TWA) – ECHA

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.

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 has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves:

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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 has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Wear tightly fitting goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------|--------------------------|
| Boiling Point | : 100 °C |
| Flash Point | : >100 °C |
| Specific Density | : 1.01 g/cm ³ |
| Volatile Organic % | : 0.0 % |
| pH | : 12.0 - 13.0 |
| Solubility in Water | : Water soluble |
| Appearance (color) | : Yellow |
| Appearance (form) | : Fluid |
| 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: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Respiratory or skin sensitization: No information available.

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 data available.

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

Aspiration hazard: No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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 |

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

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

Specified substance: 3-Amino-N-(carboxymethyl)-N,N-dimethyl-1-propanaminium, N-((C=8~18) and (C=18)-unsatd. acyl) derivs., inner salts

| 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

Data are not 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

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

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 : -

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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

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

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

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.