

SAFETY DATA SHEET

IGL Coatings™ Ecocoat Marine

Material no.

Specification

Version

154306

1.13

Revision date

Print date

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

PRODUCT NAME : IGL Coatings™ ecocoat marine

FUNCTION : Hydro & oleophobizing and easy clean agent surface modifier and gloss enhancer

COMPANY : Ominent Sdn Bhd

ADDRESS : 6 Jalan Para U8/103 Bukit Jelutong 40150 Shah Alam, Selangor Darul Ehsan, Malaysia

PHONE : +60378310980

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008



GHS02

H226 flammable liquid and vapour



GHS07

H302 Harmful if swallowed

H319 Causes serious eye irritation

H315 Causes skin irritation

H336 May cause drowsiness or dizziness

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS02

Hazard statements

H226 flammable liquid and vapour



GHS07

H302 Harmful if swallowed

H319 Causes serious eye irritation

H315 Causes skin irritation

H336 May cause drowsiness or dizziness

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

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

P281 Use personal protective equipment as required



P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P331 Do NOT induce vomiting

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

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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 | | | <10% |
| | 203-777-6 | 601-037-00-00 | Not applicable | |
| | Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315: STOT SE 3: H336; Flam. Liq. 3: H226 – Warning   | | | |

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| | | | | |
|------------|---|----------------|----------------|-------|
| 63148-62-9 | Poly(dimethylsiloxane) | | | >90% |
| | Not applicable | Not applicable | Not applicable | |
| | Not applicable | | | |
| 64-17-5 | Ethanol | | | <4.9% |
| | 200-578-6 | | 200-578-6 | |
| | Flam, Liq. 2: H225 ; Eye Irr.: H319 ; Warning | | | |

Full text of H and EUH statements: see section 16.

4. 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

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunk in little sips (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

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : foam, CO2, dry powder

Unsuitable extinguishing media: None known

5.2 Special hazards arising from the substance or mixture

Hazardous toxic and irritating fumes or smoke may be emitted

Vapours may travel considerable distance to ignition source and flash back

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.

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

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7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Keep container closed when not in use

Further information on handling

General protection and hygiene measures: refer to chapter 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: 20C

Protect against: UV-radiation/sunlight. heat.

Static electricity may accumulate and cause a fire hazard

7.3. Specific end use(s) :refer to chapter 1.

7.4. Information about the emptied container

Residues will be explosive or flammable.

Keep away from heat, sparks and flame

Do not puncture or cut this container, and do not weld on or near this container

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

OSHA PEL : TWA = 8H TWA 200ppm (Methanol ; decomposed product)

ACGIH TLV (s) : TWA = 200ppm ; STEL 250ppm (skin)

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: Not required.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. 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 can not 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 recommended during refilling

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point : 83 °C

Vapour Pressure : 12kPa (at 20°C)

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| | |
|---------------------|---------------------------------------|
| Vapor Density | : 4.1 (Air = 1) |
| Specific Gravity | : 0.97 (at 20°C) |
| Melting Point | : Not applicable |
| Flash Point | : ~25°C |
| pH | : 7.0 +/- 0.5 |
| Evaporation Rate | : >1 (Butyl Acetate = 1) |
| Solubility in Water | : Not soluble (hydrolysed with water) |
| Appearance (color) | : light transparent yellow |
| Appearance (form) | : Fluid |
| Odour | : Peculiar fragrance |

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 : Sunlight, heat, open flames, high temperature, sparks, static electrical charge, other ignition sources

10.5 Incompatible materials : Oxidizers

10.6 Hazardous decomposition products : Carbon monoxides may be formed.

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. Formaldehyde.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity : LD50 Oral – Rat – 5.628g/kg (Methanol:decomposed product)

LD50 Inhalation – Rat – 4 h – 64000 ppm (Methanol:decomposed product)

Skin corrosion/irritation : Moderate irritation (Rabbit; 20mg/24 h Methanol:decomposed product)

Eye irritation : Causes moderate eye irritation (Rabbit; 100mg/24 h Methanol:decomposed product)

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 : May cause drowsiness or dizziness

Specific target organ toxicity – repeated exposure : Ingestion – May cause damage to organs through prolonged or repeated exposure. Nervous system

Aspiration hazard : Shall not be classified as presenting as aspiration hazard

Potential health effects

Inhalation Harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.

Ingestion Harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

Skin Harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

Prolonged or repeated contact with skin may cause; defatting, Dermatitis, Contact with eyes can cause; Redness, Blurred vision, Provokes tears., Effects due to ingestion may include; Gastrointestinal discomfort, Central nervous system depression, Lung irritation, chest pain, pulmonary edema, giddiness, slowed reaction time, slurred speech, Headache, Dizziness, Drowsiness, Unconsciousness

Additional Information

RTECS: MN9275000

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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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 | 444mg/l | Fish | ECHA | 96 hours |
| EC50 | >600mg/l | Aquatic invertebrates | ECHA | 48 hours |
| ErC50 | 725 mg/l | Algae | ECHA | 72 hours |

Aquatic toxicity (chronic)

| Endpoint | Value | Species | Source | Exposure time |
|----------|-----------|-------------------|--------|---------------|
| LC50 | 3.5mg/l | Fathead minnow | ECHA | 96 h |
| EC50 | 4.878mg/l | Water flea | ECHA | 48 h |
| EC50 | 11.84mg/l | Fresh water algae | ECHA | 3 h |
| EC50 | 0.5mg/l | Skeletoma | ECHA | 8 h |

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

Data are not available

12.6 Other adverse effects

Data are not available

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

14.1 UN number

ADR/RID: 1170

IMDG: 1170

IATA-DGR: 1170

14.2 UN proper shipping name

ADR/RID: Ethyl Alcohol Solution

IMDG: Ethyl Alcohol Solution

IATA-DGR: Ethyl Alcohol Solution

14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA-DGR: 3

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA-DGR: III

14.5 Environmental hazards

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ADR/RID: yes IMDG Marine pollutant: no IATA-DGR: no

14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

14.7 Special precautions for user

No data available

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.