

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT SHIELD



Material no.

Specification

154320

Revision date

16.6.2023

Version

2.00

Page

1 of 7

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

PRODUCT NAME : IGL Coatings™ ecocoat shield
FUNCTION : Hydro- & oleophobic and easy-clean agent surface modifier and gloss enhancer
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 hazards

Flammable liquid Category 3

Health hazards

Skin irritation Category 2

Serious eye damage Category 1

Specific target organ toxicity – single exposure Category 3

Aspiration Hazard Category 1

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS02



GHS05



GHS08

Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H318 Causes serious eye damage
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/bond container and receiving equipment.
P241 Use explosion proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
P261 Avoid breathing dust/fume/gas/vapours.
P264 Wash exposed skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT SHIELD



Material no.

Specification

154320

Revision date

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Version

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Page

2 of 7

P370+P378 In case of fire: Use water spray, dry chemical or carbon dioxide to extinguish.
P403+P235 Store in well-ventilated place. Keep cool.
P405 Store locked up.
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) | | | |
| 64742-47-8 | Distillates (petroleum), hydrotreated light | | | >70% |
| | 265-149-8 | Not applicable | Not applicable | |
| | Flam. Liq. 4; H227: Asp. Tox. 1: H304 | | | |
| 123-86-4 | Butyl acetate | | | 5-15% |
| | 204-658-1 | 607-025-00-1 | 01-2119485493-29-0000 | |
| | STOT SE 3: H336; Flam. Liq. 3: H226 | | | |
| 475645-84-2 | Organopolysilazane | | | 3-5% |
| | Not applicable | Not applicable | Not applicable | |
| | Acute Tox. 4: H302; Flam. Liq. 2: H225; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1: H317 | | | |
| 63148-61-8 | Organopolysiloxane | | | 0.1-1% |
| | 814-597-8 | Not applicable | Not applicable | |
| | Not applicable | | | |
| 7782-42-5 | Graphene | | | 0.1-0.3% |
| | 231-955-3 | Not applicable | 01-2119486977-12-0000 | |
| | Not applicable | | | |

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

Rinse cautiously with water 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

Rinse mouth thoroughly with water. Do not induce vomiting. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

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

Treat symptomatically.

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT SHIELD



Material no.

Specification

154320

Revision date

16.6.2023

Version

2.00

Page

3 of 7

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water fog, dry chemical or carbon dioxide.

5.2 Unsuitable extinguishing media

High volume water jet.

5.3 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.

Hazardous Combustion Products: Incomplete combustion products, Oxides of carbon, Smoke, Fume

5.4 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

Remove all sources of ignition

Beware of vapours accumulating to form explosive concentrations. Vapour can accumulate in low areas.

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

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Do not breath vapour/dust. Avoid contact with eyes. Wash thoroughly with water and soap after handling.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge

Further information on handling

General protection and hygiene measures: refer to section 8.

7.2. Conditions for safe storage, including any incompatibilities

Further information on handling

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 section 1.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT SHIELD



Material no.

Specification

154320

Revision date

16.6.2023

Version

2.00

Page

4 of 7

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 ³ | MY OEL |
| | TWA | 150 ppm | ACGIH |
| | STEL | 200 ppm | ACGIH |
| Hydrotreated light distillates | RCP - TWA | 1200 mg/m ³ 165 ppm | ExxonMobil |

8.2 Exposure Control

Advice on safe handling

8.2.1 General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Ensure adequate ventilation.

8.2.2 Personal protective equipment:

Respiratory protection: Required when aerosols are generated. Recommended filter type: ABEK filter

Protection of hands:

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

Selection of protective clothing should take into account all relevant work factors such as: other chemicals which may be handled, physical requirements, etc.

Material of gloves:

Butyl rubber.

Penetration time of glove material:

> 10 min

Eye protection: Tightly fitting eye goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|--------------------------|
| Boiling Point | : 126 °C |
| Vapour Pressure | : 10.66 hPa (at 20°C) |
| Relative Vapor Density | : 4.0 (Air = 1) |
| Density | : 0.81 g/cm ³ |
| Melting Point | : Not applicable |
| Flash Point | : 58°C |
| pH | : No data available |
| Evaporation Rate | : Not applicable |
| Solubility in Water | : Not soluble |
| Appearance (colour) | : Transparent black |
| Appearance (form) | : Liquid |
| Odour | : Ester-like |

10. STABILITY AND REACTIVITY

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability: Stable under normal conditions.

Thermal decomposition / conditions to avoid: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

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

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: Possible decomposition products in case of hydrolysis: Hydrogen, ammonia, condensed siloxane.

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT SHIELD



Material no.

Specification

154320

Revision date

16.6.2023

Version

2.00

Page

5 of 7

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| Exposure route | Endpoint | Value | Species |
|----------------|----------|------------|---------|
| Oral | LD50 | 2858 mg/kg | Rat |
| Dermal | LD50 | 6041 mg/kg | Rabbit |
| Inhalation | LC50 | 2405 ppm | Rat |

Skin corrosion/irritation: May cause mild skin irritation.

Eye irritation: May cause mild eye irritation.

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: Category 3. May cause drowsiness and dizziness.

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

Aspiration hazard: May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Specified substance: Butyl acetate

| Endpoint | Value | Species | Exposure time |
|----------|----------|---------------------------------------|---------------|
| LC50 | 18 mg/L | Fish (Pimephales promelas) | 96 hours |
| EC50 | 44 mg/L | Water flea (Daphnia magna) | 48 hours |
| ErC50 | 630 µg/L | Desmodesmus subspicatus (green algae) | 72 hours |

Specified substance: Organopolysilazane

| Endpoint | Value | Species | Exposure time |
|----------|-----------|--------------------------|---------------|
| LC50 | 57.1 mg/L | Zebra fish (Danio rerio) | 96 hours |

Specified substance: Organopolysiloxane

| Endpoint | Value | Species | Exposure time |
|----------|--------------|----------------------------|---------------|
| LC50 | > 100 mg/L | Fish (Pimephales promelas) | 96 hours |
| EC50 | > 10000 mg/L | Water flea (Daphnia magna) | 48 hours |

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

Discharge into the environment must be avoided.

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

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT SHIELD



Material no.

Specification

154320

Revision date

16.6.2023

Version

2.00

Page

6 of 7

industry and process.

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 reporting requirements of CERCLA Hazardous Substance List

| Component(s) | CAS No. |
|---------------|----------|
| Butyl acetate | 123-86-4 |

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

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT SHIELD



Material no.

Specification

154320

Revision date

16.6.2023

Version

2.00

Page

7 of 7

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.