

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT KENZO BASE



Material no.

Specification

154303

Revision date

25.09.2020

Version

1.15

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

PRODUCT NAME : IGL Coatings™ ecocoat kenzo base
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 Liquids Category 4

Health hazards

Skin Irritation Category 3

Eye Irritation Category 2

Environmental hazards

Chronic Aquatic hazard Category 2

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS07



GHS09

Signal word

Warning

Hazard statements

H227 Combustible liquid
H316 Causes mild skin irritation
H319 Causes serious eye irritation
H411 Toxic to aquatic life with long lasting effects

Precautionary statements

P210 Keep away from open flames and hot surfaces. No smoking.
P264 Wash exposed skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear personal protective equipment.
P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
P332+P313 If skin irritation occurs: Get medical attention.
P337+P313 If eye irritation persists: Get medical attention.
P370+P378 In case of fire: Use extinguishing powder, alcohol-resistant foam or carbon dioxide to extinguish.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents in accordance with local/regional/federal regulations.

2.3 Other hazards:

Product hydrolyses, producing Methanol (CAS no. 67-56-1). Methanol is highly flammable.

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)	
2530-83-8	3-Glycidyoxypropyltrimethoxysilane	30 - 60%

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	219-784-2	Not applicable	01-2119513212-58-0000	
	Eye Dam. 1: H318			
63148-62-9	Dimethyl siloxane			10 - 20%
	613-156-5	Not applicable	Not applicable	
	Eye Irr. 2: H319; Aquatic Chronic 2: H411			
2943-75-1	Triethoxy-n-octylsilane			20 - 30%
	220-941-2	Not applicable	01-2119972313-39-0000	
	Skin Irr. 2: H315; Aquatic chronic 2: H411			
5593-70-4	Titanium tetrabutanolate			< 1%
	227-006-8	Not applicable	01-2119967423-33-0000	
	Flam. Liq 3: H226; Skin Irr. 2: H315; Eye Dam. 1: H318; STOT SE 3: H335			
7782-42-5	Graphene			<1%
	231-955-3	Not applicable	01-2119486977-12-0000	
	Not applicable			

Additional information:

The exact percentage of some ingredients used in this product are considered to be proprietary and are withheld as confidential business information.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Information

Take persons to a safe place. Observe self-protection for first aid.

After Inhalation

Keep the patient calm. If unconscious, place in stable sideway position.

After contact with skin

Remove contaminated or soaked clothing. Wash off immediately with soap and plenty of water.

In the event of a visible skin change or other complaints, seek medical advice.

After contact with eyes

Rinse immediately with plenty of water for 10-15 minutes. Remove contact lenses, if presence and easy to do.

Seek medical advice in case of continuous irritation.

After swallowing

If conscious, give several small portions water to drink. Do not induce vomiting.

Seek medical advice immediately and clearly identify substance.

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

Any relevant information can be found in other parts of this section.

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

In case of contact with water materials splits off (also in gastrointestinal tract) methanol in larger amounts; therefore consider poisoning on methanol and also observe known period of latency of several days.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Water mist, extinguishing powder, alcohol resistant foam, carbon dioxide, sand.

5.2 Unsuitable extinguishing media

Water spray, water jet.

5.3 Special hazards arising from the substance or mixture

No data available.

5.4 Advise for firefighters

Use respiratory protection independent of recirculated air.

5.5 Unusual Fire Hazards:

None

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Keep unprotected persons away. Avoid contact with eyes and skin.

Avoid inhaling mists and vapours. If material is released indicate risk of slipping.

6.2 Environmental precautions

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Prevent material from entering surface water, drains or sewers and soil.

Contain any fluid that runs out using suitable material (e.g. earth).

Retain contaminated water/extinguishing water. Dispose of in prescribed containers.

6.3 Methods and material for containment and cleaning up

Do not flush away with water.

For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose into suitable containers.

Clean any slippery coating that remains using a detergent/soap solution. Exhaust vapour.

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

Wear personal protection equipment (Refer to section 8).

Ensure adequate ventilation.

Keep away from incompatible substances in accordance with section 10.

Spilled substance increases risk of slipping.

Precaution against fire and explosion

Product can separate methanol. Flammable vapor may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Conditions for safe storage, including any incompatibilities

Condition for storage rooms and vessels

Make sure there is no possibility of entering the ground.

Advice for storage of incompatible materials

Not applicable.

Further information for storage

Protect against moisture.

Store in original container only.

Keep container tightly closed and store in a cool, well ventilated place.

7.3. Specific end use(s)

No data available.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

No information available.

8.2 Exposure Control

8.2.1 Exposure in the workplace limited and controlled

General protective and hygienic measures

Avoid contact with eyes and skin.

Do not inhale vapours.

Do not eat, drink, or smoke when handling.

8.2.2 Personal protective equipment:

Respiratory protection

In case of long and strong exposure, use mask with an ABEK filter.

Hand protection

Use protective gloves made of butyl rubber. Gloves suitable for up to 60 minutes' use. The selection of appropriate gloves not only depends on the material, but also on the other quality characteristics, and may vary depending on the manufacturer. Please observe information from your glove supplier in terms of permeability and breakthrough time.

Eye protection

Tight fitting protective goggles.

Skin protection

Protective clothing

8.2.3 Exposure to the environment limited and controlled

Prevent materials from entering surface waters and soil.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state / form	: Liquid
Colour	: Colourless
pH	: Not applicable
Melting point	: Not applicable
Boiling Point	: 180-220 °C
Density	: 1.068 g/cm ³ (at 25°C)
Flash Point	: >65°C
Solubility in Water	: Virtually insoluble

10. STABILITY AND REACTIVITY

10.1 Reactivity: Not classified as a reactivity hazard.

10.2 Chemical stability: Stable under normal condition.

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: Moisture, heat, open flames and other sources of ignition.

10.5 Incompatible materials: Oxidising agents, acids, water.

10.6 Hazardous decomposition products: When heated to temperatures above 150°C (300 F) in the presence of air, product can form formaldehyde vapours. Hazardous decomposition products will be formed upon contact with water or humid air.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Exposure route	Endpoint	Value	Species	Source
Oral	LD50	6871 mg/kg	Rat	ECHA
Dermal	LD50	4854 mg/kg	Rat	ECHA

Skin corrosion/irritation: Causes mild skin irritation.

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

Respiratory or skin sensitization: No data available.

Summary of evaluation of the CMR properties: No data available.

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: 3-Glycidyoxypropyltrimethoxysilane

Endpoint	Value	Species	Exposure time	Source
LC50	45 mg/L	Fish	4 days	ECHA
EC50/LC50	266 mg/L	Freshwater invertebrates	48 hours	ECHA
NOEC	82 mg/L	Freshwater invertebrates	21 days	ECHA
EC50	288 mg/L	Algae and cyanobacteria	4 days	ECHA

Specified substance: Triethoxy-n-octylsilane

Endpoint	Value	Species	Exposure time	Source
LC50	55 µg/L	Fish	4 days	ECHA
EC50	49 µg /L	Freshwater invertebrates	48 hours	ECHA
NOEC	189 µg /L	Freshwater invertebrates	21 days	ECHA
EC50	130 µg /L	Algae and cyanobacteria	72 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

Waste treatment methods

Material:

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

Uncleaned packaging

Recommendation:

Completely discharged containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or reused.

Observe local/state/federal regulations.

14. TRANSPORT INFORMATION

14.1 IATA-DGR

UN number

: -

UN proper shipping name

: Non dangerous goods

Transport hazard class(es)

: -

Packing group

: -

Environmental hazards

: -

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

: -

Marine pollutant

: Yes

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

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.

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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.

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.