

SAFETY DATA SHEET

IGL COATINGS™ ECOCLEAN GLASS



Material no.

Specification

Version

154301

1.15

Revision date

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

PRODUCT NAME : IGL Coatings™ ecoclean glass
FUNCTION : All-glass-cleaner
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

Eye irritation Category 2

Skin sensitisation Category 1

Specific target organ toxicity-single exposure Category 3

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS02



GHS07

Signal Word

Danger

Hazard statements

H226 Flammable liquid and vapour
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P235 Keep cool.
P240 Ground and bond container and receiving equipment.
P241 Use explosive proof equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash exposed skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

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P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use fire extinguisher to extinguish.
P403+P235	Store in a 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)			
7732-18-5	Water			80-100%
	231-791-2	Not applicable	Not applicable	
	Not applicable			
67-63-0	Isopropyl alcohol			1-5%
	200-661-7	603-117-00-0	01-2119457558-25-0000	
	Eye Irr. 2: H319; Flame Liq. 2: H225; STOT SE 3: H336			
61789-40-0	Cocamidopropyl betaine			1-5%
	263-058-8	Not applicable	01-212070501-61-0001	
	Skin Irr. 2: H315; Eye Irr. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H412			

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 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 at least 15 minutes. Remove contact lenses, if present 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.

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

Carbon dioxide or dry powder extinguishers, alcohol-resistant foam, water spray/mist.

5.2 Unsuitable extinguishing media

Water in a jet

5.3 Special hazards arising from substance or mixture

Fire hazard: DIRECT FIRE HAZARD. Highly flammable. Gas/vapor flammable with air within explosion limits. INDIRECT FIRE HAZARD. May be ignited by sparks. Gas/vapor spreads at floor level: Ignition hazard.

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Explosion hazard: DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits.
INDIRECT EXPLOSION HAZARD. May be ignited by sparks. Reactions with explosion hazards.

Reactivity: Upon combustion: CO and CO₂ are formed. Violent to explosive reaction with (strong) oxidizers.
Prolonged storage/in large quantities: May form peroxides.

5.4 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Cool tanks/drums with water spray/ remove them into safety. Do not move the load if exposed to heat.

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).

Keep away from source of ignition.

6.2 Environmental precautions

Discharge into the environment must be avoided.

Do not flush into surface water or sanitary sewer system.

Do not allow material to contaminate ground water system.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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: 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).

Ensure adequate ventilation.

Keep away from sources of ignition – No smoking.

Advice on protection against fire and explosion

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

Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

Keep the packing dry and well-sealed to prevent contamination.

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: Isopropyl alcohol

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

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:

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter.

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 cannot 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:

Safety goggles are recommended.

Body protection:

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	: 100 °C
Specific Gravity	: 0.98-1 (at 20 °C)
Density	: 0.99 g/cm ³
Flash point	: 50 °C
pH	: 4.5
Evaporation Rate	: 1.432 (water = 1)
Solubility in Water	: Water soluble
Appearance (colour)	: Sky blue
Appearance (form)	: Liquid
Odour	: Fragrance

10. STABILITY AND REACTIVITY

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability: Stable under normal condition.

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

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10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid : Avoid extreme temperature, direct sunlight, open flame and sparks.

10.5 Incompatible materials : Strong oxidizing agents.

10.6 Hazardous decomposition products : Carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Exposure route	Endpoint	Value	Species	Source
Oral	LD50	79607 mg/kg	Rat	ECHA
Dermal	LD50	20486 mg/kg	Rabbit	ECHA

Skin corrosion/irritation: May cause mild skin irritation.

Serious eye damage/eye irritation: Will cause eye discomfort, but will not injure eye tissues.

Respiratory or skin sensitization: May cause 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 cause drowsiness or dizziness.

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

Aspiration hazard : No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Specific substance: Isopropyl alcohol

Endpoint	Value	Species	Exposure time	Source
LC50	9.64 g/L	Fish	96 hours	ECHA
EC50/LC50	10 g/L	Aquatic invertebrates	24 hours	ECHA
EC50	9.17 g/L	Algae	-	ECHA
EC10/NEOC	1.80 g/L	Algae	7 days	ECHA

Specific substance: Cocamidopropyl betaine

Endpoint	Value	Species	Exposure time	Source
LC50	2 mg/L	Freshwater fish	96 hours	ECHA
EC10/LC10 or NOEC	160 µg/L	Freshwater fish	28 days	ECHA
EC50	6.4 mg/L	Aquatic invertebrates	48 hours	ECHA
EC10/LC10 or NOEC	900 µg/L	Aquatic invertebrates	21 days	ECHA
EC50	30 mg/L	Freshwater algae	48 days	ECHA

12.2 Process of degradability

Readily biodegradable.

12.3 Bio-accumulative potential

Cocamidopropyl betaine: BCF = 70.79 L/kg ww

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB Assessment

This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Data are not available.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

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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 : 1263
UN proper shipping name : Paint related materials
Transport hazard class(es) : 3
Packing group : III
Environmental hazards : No
Special precautions for user : No data available.
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 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

This product contains the following substance subject to the reporting requirements of EPCRA Section 313

Component(s)	CAS No.
Isopropyl alcohol	67-63-0

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

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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.

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.