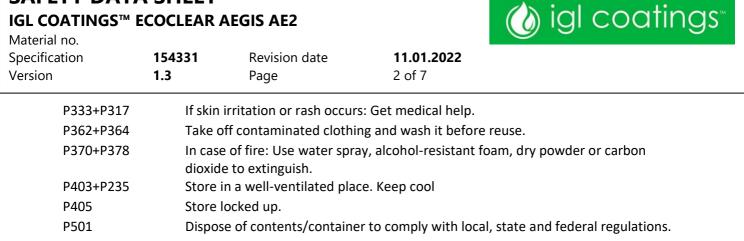
Material no.		AE2		gl coatings"
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Specification 1 Version 1		ision date	11.01.2022 1 of 7	
			ON AND OF THE COMPANY/UN	NDERTAKING
PRODUCT NAME	-	™ Ecoclear Aeg	is AE2	
FUNCTION COMPANY	: Hardener : Ominent Sdr	Rhd		
ADDRESS			Hicom-Glenmarie Industrial Park	Seksven II1 40150 Shah Alam
AB B ALSS	Selangor.			
PHONE	: +603556909	80		
EMAIL ADDRESS	: regulations@	jiglcoatings.co	n	
2. HAZARDS IDENTIF				
2.1 Classification o		r mixture		
Regulation (EC) I				
Physical hazard	S			
Flammable liquid	t	Category 4		
Health hazards				
Acute Toxicity (C)ral)	Category 4		
Skin Corrosion	and /Evo Irritation	Category 1E Category 1		
Skin sensitizer	age/Eye Irritation	Category 1		
2.2 Label Elements	;			
Regulation (EC) I	No. 1272/2008			
<u> </u>				
GHS05	>			
Signal word				
Danger				
Hazard stateme H227	Combustible l	liquid		
H302	Harmful if swa	•		
H314		e skin burns and	eve irritation	
H317		allergic skin re	-	
Drocoutiona ry c	tatomonto			
Precautionary s P210		m heat/snarks	open flames/hot surfaces. No sm	noking
P260	Do not breathe	•	•	
P264	Wash hand the	•		
P270		• •	nen using this product	
P272			hould not be allowed out of the	workplace
P280		-	ctive clothing/eye protection/fac	•
P301+P317	IF SWALLOWEI			
P301+P330+P332			. Do NOT induce vomiting	
P302+P352			of soap and water.	
P302+P352 P302+P361+P354			ely all contaminated clothing. In	nmediately rinse
r 302+r 301+r 304	with water for		-	
		emove victim t	fresh air and keep at rest in a po	osition comfortable
P304+P340	for breathing.			
P304+P340 P305+P354+P338	for breathing. 8 IF IN EYES: Imn	nediately rinse	with water for several minutes. I	
P305+P354+P338	for breathing. 8 IF IN EYES: Imn lenses, if prese	nediately rinse int and easy to	do. Continue rinsing.	
	for breathing. 8 IF IN EYES: Imn	nediately rinse ent and easy to y medical help	do. Continue rinsing. mmediately.	

SAFETY DATA SHEET IGL COATINGS[™] ECOCLEAR AEGIS AE2



3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Chemical Name	Chemical Name				
	EC No.	Index No.	REACH No.			
	Classification according	to Regulation (EC) I	No. 1272/2008 (CLP)			
919-30-2	Aminosilane	Aminosilane				
	213-048-4	Not applicable	01-2119480479-24-0000			
	Acute Tox. 4: H302; Ski	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Eye Dam. 1: H318				
68299-15-0	Dioctyltindicarboxylate	Dioctyltindicarboxylate				
	269-595-4	Not applicable	01-2120770890-48-0000			
	STOT SE 2: H371					

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Information

Take off contaminated clothing immediately.

After Inhalation

If aerosol or mists are formed: Possible discomfort: Severe irritation of mucous lining (nose, throat, eyes), cough, sneezing, flow of tears.

Move victims into fresh air. If breathing difficulties occur: Keep patient half sitting with upper body raised. Call a physician immediately.

After skin contact

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

With eye held open, rinse thoroughly with water for at least 15 minutes. Continue rinsing with eye rinsing solution. Protect unharmed eye. Remove contact lenses, if presence and easy to do. Call ambulance. (Cue: caustic burn of the eyes). Immediate further treatment in ophthalmologist.

After ingestion

Do NOT induce vomiting. Wash out mouth with water provided the person is conscious. Never give anything by mouth to an unconscious person. Have patient drink plenty of water in small sips.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Therapy as for chemical burn. If substance has been swallowed: Early endoscopy in order to access mucosa lesions in the oesophagus and stomach which may appear. If necessary, suck away leftover substance. Allergic reactions cannot be excluded. Treatment of allergic reaction if necessary.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry powder or carbon dioxide.

5.2 Unsuitable extinguishing media

Do NOT use water jet.

5.3 Special hazards arising from the substance or mixture

SAFETY DATA SHEET IGL COATINGS™ ECOCLEAR AEGIS AE2

Matorial no

Material IIO.			
Specification	154331	Revision date	11.01.2022
Version	1.3	Page	3 of 7

igl coatings

Hazardous fumes in fires, specific to product: nitrogen oxides

5.4 Special fire-fighting procedures

Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.5 Special protective equipment for fire-fighters

In case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (Refer to section 8).

Keep out unprotected persons. Ensure adequate ventilation.

6.2 Environmental precautions

Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

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). Fill into marked, sealable containers.

To be disposed of in compliance with existing regulations.

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 eyes and skin.

Use with adequate ventilation.

Do not breathe vapours or spray mist.

No smoking.

Advice on protection against fire and explosion

Keep container closed when not in use.

Keep away from heat, sparks and flame.

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. Protect against moisture.

Advice on storage compatibility

Do not store together with food and feeding stuffs.

Further information on storage conditions

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

Occupational Exposure Limits: Observe national threshold limit values. Biological Limit Values

No biological exposure limit noted for ingredient(s).

SAFETY DA	TA SHEET			
IGL COATINGS	ECOCLEAR	AEGIS AE2		(👌 igl coatings
Material no.				
Specification	154331	Revision date	11.01.2022	
Version	1.3	Page	4 of 7	

8.2 Exposure Control

8.2.1 General protective and hygienic measures:

Wash hands before breaks and at the end of work. Ensure adequate ventilation. No smoking.

8.2.2 Personal protective equipment:

Respiratory protection:

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Protection of hands:

Material: Butyl rubber.

Breakthrough time: > = 480 min

Material: Polyvinyl chloride (PVC).

Breakthrough time: > = 120 min

Guideline: Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

Additional information: Selection of protective gloves to meet the requirements if specific workplaces. Suitability for specific workplaces should be clarified with protective glove manufacturers. The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials. Please observe that the daily duration of usage of a chemical protective glove is in practice far shorter due to the many influencing factors (e.g. temperature, mechanical strain on the glove material) than the permeation time determined acc. EN 374.

Eye protection: Close-fitting protective goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour) Appearance (form) Odour Boiling Point Vapour Pressure Vapor Density Density Melting Point Flash Point Flash Point pH Evaporation Rate Solubility in Water Auto-ignition temperature Decomposition temperature	: Colourless to yellowish : Liquid : Amine-like : 220 °C : 2 Pa (at 20 °C) : No data available. : 0.95 g/cm ³ (at 20 °C) : Not applicable : 80 °C : Not applicable : No data available. : Not soluble (Decomposition by hydrolysis) : 270 °C : >217 °C
Auto-ignition temperature Decomposition temperature Self-ignition temperature	: 270 °C : >217 °C : 270 °C

10. STABILITY AND REACTIVITY

10.1 Reactivity: No dangerous reaction known under conditions of normal use.

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: Exothermic reaction with water, organic acids and inorganic acids.

10.4 Conditions to avoid: Keep away from heat and sources of ignition. Protect from moisture.

10.5 Incompatible materials: Water, acid and strong oxidant.

10.6 Hazardous decomposition products: Ethanol in case of hydrolysis. Alcohol formed by hydrolysis lower the flashpoint of the product.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects					
Exposure route	Endpoint	Value	Species		
Oral	LD50	1536 mg/kg	Rat		

SAFETY DATA SHEET IGL COATINGS™ ECOCLEAR AEGIS AE2



Material	no.
Specifica	ation

Specification	154331	Revision date	11.01.2022
Version	1.3	Page	5 of 7

Dermal	LD50	>2000 mg/kg	Rat

Skin corrosion/irritation: May causes skin corrosion.

Serious eye damage/eye irritation: May causes serious damage to eyes.

Respiratory or skin sensitization: May causes sensitization by skin.

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: Shall not be classified as specific target organ toxicity – single exposure.

Specific target organ toxicity – repeated exposure: Shall not be classified as specific target organ toxicity – repeated exposure.

Aspiration hazard: Shall not be classified as aspiration hazard.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Specified substances: Aminosilane

Endpoint	Value	Species	Exposure time
LC0	934 mg/L	Fish (Brachydanio rerio)	96 hours
EC50	331 mg/L	Aquatic Invertebrates (Daphnia magna)	48 hours
EC50	1000 mg/L	Green algae	72 hours
NOEC	1.3 mg/L	Green algae	72 hours

12.2 Persistence and degradability

Not readily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Partition Coefficient n-octanol/water (log Kow)

- No data available
- **12.5 Mobility in soil** No data available

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.

Contaminated Packaging

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities. If there is product residue in the emptied container, follow directions for handling on the container's label. Incorrect disposal or reuse of this container is illegal and can be dangerous.

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

: 3267 : Corrosive liquid, basic, organic, n.o.s. (3-aminopropyl-triethoxysilane)

SAFETY DA IGL COATINGS Material no.	TA SHEET S™ ECOCLEAR A	🕜 igl coatings		
Specification	154331	Revision date	11.01.2022	
Version	1.3	Page	6 of 7	
•	azard class(es)	: 8		
Packing gro		: 11		
Environmer	ntal hazards	: No		
Special pred	cautions for user	: No data av	ailable.	
Remarks		: -		
14.2 IMDG	-Code			
UN number	·	: 3267		
UN proper shipping name		: Corrosive liquid, basic, organic, n.o.s. (3-aminopropyl-triethoxysilane)		
Transport h	azard class(es)	: 8		
Packing gro	oup	: 11		
Environmer	ntal hazards	: No		
Marine poll	utant	: 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

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 CRF 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.

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SAFETY DA				() igl coatings[™]
Material no.				
Specification	154331	Revision date	11.01.2022	
Version	1.3	Page	7 of 7	

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