

SECTION 1: IDENTIFICATION

1.1 Product identifier

Brand **Evolve®**
Trade Name **Solar Panel Cleaner**

1.2 Product Use

Identified Use Hard water, lime scale, and calcium remover and cleaner for marine vessels.

1.3 Manufacturer/Supplier

Company Agaia, Inc.
Address 200 East Broward Blvd, Suite 1100
Fort Lauderdale, FL 33301
Telephone (954) 366-7200
Email MSDS@AgaiaInc.com

1.4 Emergency telephone number

Emergency Phone CHEMTREC: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 GHS Classifications

H315 Skin Irritant 2
H319 Eye Irritant 2A

2.2 Label elements

2.2.1 Label elements According GHS Classifications

Hazard Pictogram(s)



Signal Word **Warning**

Hazard Statements H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary Statements P264 - Wash exposed skin thoroughly after handling
P280 - Wear protective gloves, protective clothing, eye protection, face protection
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 advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse

2.3 Other hazards

Other hazards not contributing to the classification: NONE

2.4 Unknown acute toxicity (GHS-US)

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 GHS Classification

Hazardous Ingredients	Common Name	CAS No.	EC No.	%W/W
Propanoic acid, 2-hydroxy-	Lactic Acid	50-21-5	200-018-0	14%

Non-Hazardous Ingredients	Common Name	CAS No.	EC No.
Sodium Carbonate	Soda Ash	497-19-8	207-838-8
D-Glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides	Alkylpolyglycoside	110615-47-9	600-975-8
D-Glucopyranose, oligomers, decyl octyl glycosides	Alkylpolyglycoside	68515-73-1	500-220-1
Fatty acids, C16-18 and C18-unsatd., Me esters	Methyl Soyate	67762-38-3	267-015-4

3.2 Additional Information

This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances).

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- Inhalation** Not a likely route of exposure. Remove to fresh air if irritation occurs. If symptoms develop, obtain medical attention.
- Skin Contact** May cause skin irritation or redness. No toxicity associated with the product being absorbed through skin. Wash exposed areas with water. In the unlikely event of prolonged irritation, seek medical advice.
- Eye Contact** This product causes irritation to the eyes after direct contact. Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Ingestion** If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Acute Eyes: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Skin: Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching. Ingestion: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Delayed and Chronic Effects Expected to be similar to acute exposures.

4.3 Indication of the immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Not flammable or combustible by OSHA/WHMIS criteria. Not Sensitive to mechanical impact and static discharge.
Flash Point: 200°C (392°F) Explosive Limits: NA Auto-Ignition Temperatures: NA

5.1 Extinguishing media

Suitable Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions.

Unsuitable Extinguishing Media: None known.

5.2 Special hazards arising from the substance or mixture

Containers may rupture from exposure to high temperatures, releasing contents that may be slippery.

5.3 Advice for fire-fighters

Suitable protective clothing should be worn in fire conditions. Extinguish preferably with dry chemical, foam or water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not touch or walk through spilled material. Use personal protection recommended in Section 8.

6.2 Environmental Precautions

None

6.3 Methods and material for containment and cleaning up

Rinse area with water. Dispose of material in accordance with local regulations.

6.4 Reference to other sections

See Also Section 7, 8, 13

6.5 Additional Information

None

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not swallow. Wash thoroughly after handling. See Section 8 for information on Personal Protective Equipment.

7.2 Conditions for safe storage

Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Substance	CAS No.	LEL (8hr TWA ppm)	LEL (8hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)
Lactic Acid	50-21-5	No Threshold Limit Value (TLV) established (ACGIH). No Permissible Exposure Limit (PEL) established (OSHA).			

OELs are not available for non-listed components.

8.1.2 Biological limit value

Limit Value Type (Country of Origin)	Substance	CAS No.	Biological Limit Value
No hazardous ingredients in reportable quantities under USA, Canada, EU, and UN regulations are present in this product. No Threshold Limit Value (TLV) established (ACGIH). No Permissible Exposure Limit (PEL) established (OSHA).			

8.1.3 PNECs and DNELs

No PNECs or DNELs are available for this product. As with all chemical products, users are cautioned to avoid unnecessary exposures.

8.2.2 Personal protection equipment

Respiratory Protection: Usually not needed.

Eye Protection: Wear safety glasses. Ensure that eyewash stations and safety showers are close to the workstation location. Use equipment for eye protection that meets the standards referenced by OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Hand Protection: Wear protective gloves. Consult manufacturer specifications for further information.

Skin and Body Protection: Wear protective clothing.

Engineering Controls: No special controls required

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Ready-To-Use (RTU)

Appearance:	Water-like liquid
Color:	Clear to Amber
Odor:	Slightly Acrid
Odor Threshold:	Not available
pH:	2.4
Melting Point / Freezing Point:	0°C (32°F)
Initial Boiling Point:	Not available
Boiling Point:	110°C (230°F)
Flash Point:	200°C (392°F)
Evaporation Rate:	1 (Water = 1)
Flammability (solid, gas):	Non-Flammable
Upper/Lower Flammability Limit:	Non-Flammable
Auto-ignition Temperature:	Non-Flammable
Vapor Pressure:	Not available.
Vapor Density:	3.2 (Air = 1)
Relative Density:	Not available
Solubilities:	Infinitely miscible with water.
Partition Coefficient: N-octanol/Water:	Not available
Decomposition Temperature:	Not available
Percent Volatile, wt. %:	0%
Specific Gravity:	1.044

9.2 Other information

VOC content, wt. %: 0%

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Contact with incompatible materials.

10.2 Chemical stability

Stable under normal conditions. Avoid temperature extremes.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Do not freeze. Do not use above ambient temperature.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous Decomposition Product(s)

Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

Substance	CAS No.	LD ₅₀ (Oral, Rat)	LC ₅₀ (Inhalation, Rat)	LD ₅₀ (Dermal, Rabbit)
Lactic Acid	50-21-5	3543 mg/kg	Not available	> 2000 mg/kg

11.1 Information on toxicological effects

11.1.2 Mixtures

Effects of Acute Exposure

Ingestion May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Inhalation Not Known. Not a likely route of exposure.

Skin Contact Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

Eye Contact Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Corrosivity None expected.

Repeated Dose toxicity Prolonged or repeated contact may dry skin and cause irritation.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by ACGIH, IARC, OSHA, or NTP.

Mutagenicity Not available

Toxicity for reproduction Not available

11.2 Other information

None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not expected to be harmful to aquatic or soil environments.

12.2 Persistence and degradability

Readily biodegradable organic liquid.

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Additional Information on Ecotoxicity

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal should be in accordance with local, state or national legislation. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Containers must not be punctured or destroyed by burning, even when empty.

13.2 Additional Information

None

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID) (c)(d): Not classified as dangerous for transport.

U.S. Department of Transportation (DOT) (c)(d): Not classified as dangerous for transport.

Canada Transportation of Dangerous Goods (TDG) (c)(d): Not classified as dangerous for transport.

Sea transport (IMDG) (c)(d): Not classified as dangerous for transport.

Air transport (ICAO/IATA) (c) (d): Not classified as dangerous for transport.

(c)– Consult with transport provider. (d)– Check relevant regulations for Special Provisions.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations and associated hazards for the mixture

15.1.1 Regulations

Country	Chemical Inventory or Regulation	Classification	Associated Hazards
Australia	<i>Australian Inventory of Chemical Substances (AICS)</i>	Listed	None
Canada	<i>Domestic Substances List (DSL/NDL)</i>	The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.	
	<i>WHMIS Classification</i>	Class D2B	Skin irritant - Eye irritant
	<i>Canada Ingredient Disclosure List (CIDL)</i>	Listed	None
China	<i>Inventory of Existing Chemical Substances in China (IECSC)</i>	Listed	None
Colombia	<i>Colombian Technical Standard (ICONTEC)</i>	The components of this product and its classification meet the requirements of NTC 4435 and NTC 1692.	
Europe	<i>European Inventory of Existing Commercial Chemical Substances (EINECS)</i>	Listed	None
Japan	<i>Inventory of Existing and New Chemical Substances (ENCS)</i>	Listed	None
Korea	<i>Korea Existing Chemicals Inventory (KECI)</i>	Listed	None
New Zealand	<i>New Zealand Inventory of Chemicals (NZIoC)</i>	Listed	None
Philippines	<i>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</i>	Listed	None
Taiwan	<i>National Existing Chemical Inventory in Taiwan (NECI)</i>	Listed	None
USA	<i>TSCA (Toxic Substance Control Act)</i>	The components of this product are in compliance with the chemical notification requirements of TSCA.	
	<i>SARA 311/312 - Hazard Categories</i>	None	None
	<i>SARA 302 - Extremely Hazardous Substances</i>	Not Listed	None
	<i>SARA 313 - Toxic Chemicals</i>	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.	
	<i>CERCLA (Comprehensive Environmental Response Compensation and Liability Act)</i>	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).	
	<i>CAA (Clean Air Act 1990)</i>	This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.	
	<i>CWA (Clean Water Act)</i>	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).	
	<i>State Right to Know Lists</i>	This product does not contain any substances regulated by state right-to-know regulations.	
	<i>Proposition 65 (California)</i>	This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.	

SECTION 16: OTHER INFORMATION

NFPA Rating

NFPA Health Hazard 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA Fire Hazard 0 - Materials that will not burn.
NFPA Reactivity 0 - Normally stable.

HMIS Rating

Health 1 - Slight Hazard - Irritation or minor reversible injury possible
Flammability 0
Physical 0



Additional Information: Replaces October 14, 2014 and all previous editions.

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 a 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 used in combination with any other materials or in any process, unless specified in the text.

References: RTECS, CAS Registry, EINECS/ESIS, Manufacturer Information

End of Safety Data Sheet