

SECTION 1 - IDENTIFICATION

Product Identifier

MARINE KLEAN

Other Means of Identification**Recommended Use of the Chemical**

Cleaning aluminum finned cooling and heating coils. For professional use only. Product is a concentrate and should be diluted prior to use.

Responsible Party**Name** Solar Chemicals Inc.**Address** 3471 Atlanta Industrial Pwky,
Atlanta, GA 30331 USA**Phone** 1.800.929.1321**Web** solarchemonline.com**Emergency Phone Number**

For Chemical Emergencies call Chemtrec at 1.800.262.8200

SECTION 2 – HAZARD IDENTIFICATION

Classification of the Chemical

Eye Irritation, category 2a

Signal Word

Warning

Hazard Symbols**Hazard Statement(s)**

Causes serious eye irritation

Precautionary Statement(s)Wash hands and exposed skin thoroughly after handling.
Wear protective gloves and eye protection.**IF IN EYES:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

Hazards Not Otherwise Classified

None known

0% of the mixture consists of ingredients of unknown toxicity

Note

Labeling information found on this SDS may be different from label. Safety Data Sheets are regulated by OSHA (29 CFR §1910.1200) while the actual product and its label may be regulated by a different government agency

SECTION 3 – COMPOSITION

Ingredient	CAS	wt%	GHS Classification(s)
Alcohols, C9-11 ethoxylated	68439-46-3	<17%	Eye Irritant 2
Citric Acid	77-92-9	<9%	Eye Irritant 2
Sodium Carbonate	497-19-8	<8%	Eye Irritant 2

Trade Secret Claim

When applicable, the specific concentration of each hazardous ingredient is considered a TRADE SECRET. Chemical names and identifiers will be listed in exact composition weight and name when not subject to trade secret exemptions

SECTION 4 – FIRST AID MEASURES

General First Aid Measures

If medical attention is required then provide product label or safety data sheet to a medical professional.

Most Important Symptoms

None known

If Inhaled

Move person to fresh air and keep comfortable for breathing. Administer artificial respiration if person is not breathing.

If on Skin

Wash with soap and water. Take off contaminated clothing and launder with detergent before reuse.

If in Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Rinse for at least 10 minutes to ensure proper flushing of material from eye.

If Swallowed

Do NOT induce vomiting unless instructed to do so by a trained medical professional. Drink plenty of water.

Indication of Immediate Medical Attention

Not anticipated to require immediate medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, CO2 or water spray

Unsuitable Extinguishing Media

None known

Specific Hazards Arising From the Chemical

None known

Hazardous Combustion Products

Carbon oxides

Special Protective Equipment for Fire-fighters

Not determined

Precautions for Fire-Fighters

Not determined

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ensure that the environment is physically safe to be in. Wear personal protective equipment before remedying an accidental release of mixture

Protective Equipment

Wear gloves suitable for chemical resistance. Wear protective eye glasses/goggles. In the event of inadequate air ventilation use artificial breathing apparatuses

Emergency Procedures

Evacuate all non-essential personnel from the area. Ensure that all drains are covered to prevent environmental exposure. Follow methods found in next sub-section: Methods for Containment and Clean Up

Methods for Containment and Clean Up

Provide mechanical ventilation. Soak up with an absorbing agent such as saw dust, sand, or sponges and sweep into a container appropriate for storage. Offer to a licensed waste disposal company for appropriate disposal

References

See Section 7 on safe handling. Section 8 for information on personal protection equipment. See Section 13 for disposal information

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Keep in original container before and after use. Read product label thoroughly and follow directions as provided in each label's Directions section. Wear protective equipment suggested in Section 8 even if product label does not recommend use of protective equipment

Conditions for Safe Storage

Store in all original containers/packaging as product label contains important information regarding proper use of chemical. Store appropriate to NFPA ratings found in Section 15 of this SDS.

Storage Incompatibilities

None known

SECTION 8 – PERSONAL PROTECTION

Exposure Limits

Ingredient

CAS

PEL

AGCIH

NIOSH

Contains no ingredients considered hazardous to health in accordance with OSHA Hazard Communication Standards

General Note

Practice good industrial hygiene by washing hands thoroughly before and after use. Keep working areas clean. Ensure proper use of personal protective equipment as recommended in this section

Skin Protection

Wear long sleeves and pants to minimize exposure to skin. Wear protective gloves when using this product. Gloves should be chemically resistant to the material. Launder contaminated clothing before reuse. Wear an apron if usage of chemical is anticipated to expose user to a large quantity of material

Appropriate Engineering Controls

Ensure adequate mechanical ventilation capable of preventing vapor build up

Respiratory Protection

Not anticipated to require personal breathing apparatuses for use or other respiratory protection equipment

Eye Protection

Eye glasses or goggles are recommended when using this product. Eye protection should fit user as to minimize risk of exposure as much as possible

SECTION 9 – CHEMICAL PROPERTIES

Appearance

Clear yellow liquid

Upper Explosive %

Not determined

Odor

Not determined

Lower Explosive %

Not determined

Odor Threshold

Not determined

pH

8.0-10.0

Vapor Density

Not determined

Melting Point

Not determined

Relative Density

Not determined

Boiling Point

Not determined

Solubility

Not determined

Flash Point

Not determined

Partition Coefficient

Not determined

Evaporation Rate

Not determined

Auto-Ignition Temp

Not determined

Flammability

Not determined

Decomposition Temp

Not determined

Viscosity

Not determined

SECTION 10 – STABILITY AND REACTIVITY**Reactivity**

Material is not anticipated to be reactive

Chemical Stability

Material is anticipated to be stable in normal storage conditions when not exposed to any incompatible materials

Possibility of Hazardous Reactions

None known

Conditions to Avoid

Ensure that chemical is not exposed to heat, direct sunlight, or sources of ignition

Incompatible Materials

Not determined

Hazardous Decomposition Products

Not anticipated to produce any hazardous decomposition products beyond any health risk

SECTION 11 – TOXICOLOGICAL INFORMATION**Acute Toxicity Estimates**

Oral – Contains no ingredient(s) considered toxic

Dermal – Contains no ingredient(s) considered toxic

Inhalation - Contains no ingredient(s) considered toxic

Aspiration Hazard

Contains no ingredient(s) which pose a risk in this category

Carcinogenicity

Contains no ingredient(s) which pose a risk in this category

Eye Damage/Irritation

Contains ingredients which pose a risk in this category

Germ Cell Mutagenicity

Contains no ingredient(s) which pose a risk in this category

Reproductive Toxicity

Contains no ingredient(s) which pose a risk in this category

Respiratory Sensitization

Contains no ingredient(s) which pose a risk in this category

Skin Corrosion/Irritation

Contains no ingredient(s) which pose a risk in this category

Skin Sensitization

Contains no ingredient(s) which pose a risk in this category

Specific Target Organ Toxicity – Repeated Exposure

Contains no ingredient(s) which pose a risk in this category

Specific Target Organ Toxicity – Single Exposure

Contains no ingredient(s) which pose a risk in this category

Delayed and Immediate Effects From Short- and Long-Term Exposure

Not determined

Symptoms related to the Chemical Characteristics

Not determined

National Toxicology Program Listing

No ingredient(s) listed as possibly carcinogenic

International Agency for Research on Cancer Listing

No ingredient(s) listed as possibly carcinogenic

SECTION 12 – ECOLOGICAL INFORMATION**Ecotoxicity Estimated Values**

Algae Contains no ingredient(s) considered toxic

Fish Contains no ingredient(s) considered toxic
Crustacea Contains no ingredient(s) considered toxic

Persistence and Degradability

Not determined

Bioaccumulative Potential

Not determined

Other Adverse Effects

Not determined

Mobility in Soil

Not determined

SECTION 13 – DISPOSAL CONSIDERATIONS**Disposal of Empty Containers**

Empty container can be recycled

Disposal of Material

Dispose of full or partially full containers by offering material to a licensed waste management company and follow all local regulations on proper disposal of material

SECTION 14 – TRANSPORTATION INFORMATION**Hazard Placards**

Not a regulated mixture

UN Number

Not a regulated mixture

UN Shipping Name

Not a regulated mixture

Technical Name(s)

Not a regulated mixture

Hazard Class(es)

Not a regulated mixture

Packaging group

Not a regulated mixture

Limited Quantity

Not a regulated mixture

Marine Pollutant

No

Transport in Bulk

Not determined

Special Precautions

Keep in original container. Do not store excessive weight on top

SECTION 15 – REGULATORY INFORMATION**SARA 311** Sodium Carbonate; Citric Acid**SARA 312** Sodium Carbonate; Citric Acid**SATA 313** No applicable ingredient(s)**TSCA Inventory List**

All ingredients in this mixture are on the TSCA inventory list as active or exempt.

California

Prop65 No applicable ingredient(s)

ARB Designation Single Purpose Cleaner

VOC Limit Not applicable

HMIS®III (higher numbers indicate higher risk)

Health 1

Flammability 0

Physical Hazard 0

NFPA (higher numbers indicate higher risk)

Health 1

Flammability 0

Instability 0

SECTION 16 – OTHER INFORMATION

Revision History

June 2021 SDS Review and re-authoring

General Disclaimer

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- END SAFETY DATA SHEET -