LEGGESYSTEMS
YOU ALWAYS HAVE LEGGE TO STAND ON

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: RADICLEAN
Product code: K8070
Manufacturer or supplier's details
Company name: WALTER G. LEGGE Co., Inc
Address: 444 Central Ave
Peekskill NY 10566
Telephone: 914-737-5040 or 800-345-3443
Recommended use of the chemical: Cleaner for use on Natural Stone, Concrete, Tile, Sealed Wood and all surfaces not affected by water.

2. HAZARDS IDENTIFICATION

GHS Classification
Acute Toxicity (oral): Category 4
Eye irritation: Category 2A
GHS Label element

Hazard pictograms

Signal Word	Warning
Hazard Statements	Harmful if swallowed. Causes serious eye irritation
Precautionary Statements Prevention:	Wear eye or face protection. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response:	IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. 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 attention.
Storage:	Store in original container.
Disposal:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards	None known.

3. COMPOSTION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture Ingredients

Chemical Name	CAS-No.	Concentration (%)
Alcohols, C10-16, ethoxylated, sulfates, sodium salts	68585-34-2	5-10
sodium dodecylbenzenesulfonate	25155-30-0	5-10
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,Ndimethyl-, N-coco acyl derivs., hydroxides, inner salts	61789-40-0	1-2.5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4. FIRST AID AND MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
I**n case of skin contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
In case of eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person.
Protection of first aiders: First Aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists.
Notes to physician: Treat symptomatically and supportively

5. FIRE - FIGHTING MEASURES

Suitable extinguishing media: Water spray, alcohol resistant foam, dry chemical, carbon dioxide
Specific hazards during firefighting: Exposure to combustion products may be a hazard to health.
Hazardous combustion products: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up: Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. See Section 13 for waste disposal

7. HANDLING AND STORAGE

Technical measures: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation: Use with local exhaust ventilation.
Advice on safe handling: Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Store in original container or corrosive resistant and/or lined container. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage: Keep in properly labeled containers. Store in original container. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid: Do not store with the following product types: Strong oxidizing agents, Organic peroxides, Explosives

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Minimize workplace exposure concentrations. Use with local exhaust ventilation.
Personal protective equipment:
Respiratory protection: No personal respiratory protective equipment normally required.
Hand protection material: Rubber or plastic gloves
Remarks: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles
Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
Hygiene measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com)

9. PHYSICIAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Straw
Odor	Light Citrus
Odor Threshold	No data available
pH	10-11
Melting point/freezing point	No data available
Initial boiling point and boiling range	100 o c
Flash point	> 100 o c
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Explosion Limits	Not applicable
Explosive properties	Not explosive
Vapor Pressure	No data available
Density	1.04
Autoignition temperature	Not applicable
Viscosity	600-800cPS
Oxidizing properties	None

10. STABILITY AND REACTIVITY

Reactivity: Not classified as a reactivity hazard.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. May be corrosive to metals. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Conditions to avoid: None known.
Incompatible materials: No specific data Hazardous decomposition products None known

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Inhalation, Skin contact, Ingestion, Eye contact
Acute toxicity: Not classified based on available information.
Ingredients:
sodium dodecylbenzenesulfonate (at raw material active properties)
Acute oral toxicity LD50 Oral (Rat): 438 mg/kg

Skin irritation: Material may cause irritation.
Ingredients (at raw material active properties):
sodium dodecylbenzenesulfonate
Species: Rabbit
Result: Moderate Irritant 1 percent
1-Propanaminium, 3-aminoN(carboxymethyl)-N,Ndimethyl-, N-coco acyl derivs., hydroxides, inner salts Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation Causes irritation.
Ingredients (at raw material active properties)
sodium dodecylbenzenesulfonate
Species: Rabbit
Result: Severe Irritant 24 hours 250 Micrograms
1-Propanaminium, 3-aminoN(carboxymethyl)-N,Ndimethyl-, N-coco acyl derivs., hydroxides, inner salts Species: Rabbit
Result: Severe irritant 24 hours 100 microliters

Respiratory or skin sensitization
Skin sensitization: No known significant effects or critical hazards
Respiratory sensitization: No known significant effects or critical hazards
Carcinogenicity: No known significant effects or critical hazards
Reproductive toxicity: No known significant effects or critical hazards
STOT-single exposure: No known significant effects or critical hazards
STOT-repeated exposure: No known significant effects or critical hazards
Aspiration toxicity: No known significant effects or critical hazards

12. ECOLOGICAL INFORMATION

Ecotoxicity
Ingredients (at raw material active properties)
Methanol
Toxicity to fish: LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.18 ppm Exposure time: 96 h
Toxicity to daphnia: and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): > .15 ppm Exposure time: 48 hrs
Toxicity to algae: EC50 (Pseudokirchneriella subcapitata (green algae)): 29000 ug/l Exposure time: 96 h Method: OPPTS 850.5400
Toxicity to fish: (Chronic toxicity) NOEC (Oryzias latipes (Orange-red killifish)): 1 5,800 mg/l Exposure time: 200 h

Persistence and degradability: Not available

Bioaccumulative potential
Ingredients (at raw material active properties)

sodium dodecylbenzenesulfonate	LogP – 1.96 low potential
1-Propanaminium, 3-aminoN(carboxymethyl)N,Ndimethyl-, N-coco acyl derivs., hydroxides, inner salts	LogP - 1.79 low potential

Mobility in soil: No data available
Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should, at all times, comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

UNRTDG	Not applicable for product as supplied
IATA-DGR	Not applicable for product as supplied
IMDG-Code	Not applicable for product as supplied
Transport in bulk according to Annex II of MARPOL 73178 and the IBC Code	Not applicable for product as supplied
Domestic regulation 49 CFR	Not applicable for product as supplied
Marine pollutant	No

15. REGULATORY INFORMATION

Name	%	Fire Hazard	Sudden release of pressure	Reactive	Immediate (acute health hazard)	Delayed (chronic health hazard)
sodium dodecylbenzenesulfonate	5 – 10	Yes	No	No	Yes	No
1-Propanaminium, 3amino-N(carboxymethyl)N,N-dimethyl-, Ncoco acyl derivs., hydroxides, inner salts	1 – 2.5	No	No	No	Yes	No

State Regulations:
Massachusetts: The following components are listed: Sodium Dodecylbenzene Sulfonate
New York: The following components are listed: Sodium Dodecylbenzene Sulfonate
New Jersey: The following components are listed: Sodium Dodecylbenzene Sulfonate, Benzenesulfonic Acid, Dodecyl-, Sodiium Salt
Pennsylvania: The following components are listed: Benzenesulfonic Acid, Dodecyl-, Sodiium Salt
The ingredients of this product are reported in the following inventories:
KECI All ingredients listed, exempt or notified
REACH All ingredients (pre-)registered or exempt.
TSCA All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
ACS All ingredients listed or exempt.
IECSC All ingredients listed or exempt.
PICCS All ingredients listed or exempt.
DSL All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZ10C (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

16. OTHER INFORMATION

Further information

HMIS III

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight, Special hazard.
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage.