



TERRAGREEN RED DIAMOND

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 6/26/2014 Revision date: 6/6/2022 Supersedes: 10/26/2015 Version: 5.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : TERRAGREEN RED DIAMOND
Product code : 111011

1.2. Recommended use and restrictions on use

Recommended use : Floor Cleaner and Maintainer
Restrictions on use : None known

1.3. Supplier

Brulin
P.O. Box 270
Indianapolis, IN 46206 - USA
T 1.800.776.7149 / +1.317.923.3211 - F 317.925.4596
Regulatory@brulin.com - www.bruin.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1.800.424.9300 or CHEMTREC (International) 1.703.527.3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Hazardous to the aquatic environment – Acute Hazard Category 3	H402	Harmful to aquatic life

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) :
H315 - Causes skin irritation
H318 - Causes serious eye damage
H402 - Harmful to aquatic life

Precautionary statements (GHS US) :
P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear eye protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER, a doctor.
P302+P352 - IF ON SKIN: Wash with plenty of water
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to an approved waste disposal plant.

TERRAGREEN RED DIAMOND

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : None known.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
LITHIUM POLYSILICATE	CAS-No.: 12627-14-4	5 – 10
Hexyl D-glucopyranoside	CAS-No.: 54549-24-5	1 – 5
Non-Ionic surfactant*	CAS-No.: Trade Secret	1 – 5
alcohols, C11-15-secondary, ethoxylated	CAS-No.: 68131-40-8	1 – 5
Potassium Carboxylate Salt*	CAS-No.: Trade Secret	1 – 5

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : No adverse effects expected.
Symptoms/effects after skin contact : Causes skin irritation. Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact : May cause severe irritation. redness, itching, tears. stinging. Serious damage to eyes.
Symptoms/effects after ingestion : May cause irritation to the digestive tract.
Chronic symptoms : None known.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : None known.

TERRAGREEN RED DIAMOND

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Do not freeze. Keep out of the reach of children. Store in a well-ventilated place. Keep cool.
Incompatible materials : Refer to Section 10 on Incompatible Materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TERRAGREEN RED DIAMOND

No additional information available

TERRAGREEN RED DIAMOND

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hexyl D-glucopyranoside (54549-24-5)

No additional information available

alcohols, C11-15-secondary, ethoxylated (68131-40-8)

No additional information available

Potassium Carboxylate Salt

No additional information available

Non-ionic surfactant

No additional information available

LITHIUM POLYSILICATE (12627-14-4)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Eyewash station. Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Chemically resistant protective gloves

Eye protection:

Chemical goggles

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No respiratory protection needed under normal use conditions

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Color	: red orange
Odor	: Citrus Fragrance Added
Odor threshold	: No data available
pH	: 10.9 (pH 9.7 @ 1:512 Dillution)
Melting point	: 32 °F (0 °C)
Freezing point	: No data available
Boiling point	: 212 °F (100 °C)
Flash point	: None to boiling
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.08
Solubility	: Water: 100 %

TERRAGREEN RED DIAMOND

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not explosive.
Oxidizing properties	: Non oxidizing material.

9.2. Other information

VOC content : 0.1 % Less Exempts and Water

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Hexyl D-glucopyranoside (54549-24-5)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

alcohols, C11-15-secondary, ethoxylated (68131-40-8)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg Source: ECHA

Potassium Carboxylate Salt

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

TERRAGREEN RED DIAMOND

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Non-ionic surfactant	
LD50 oral rat	3488 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)
LC50 Inhalation - Rat	> 1.6 mg/l/4h (no mortality at highest attainable concentration)

LITHIUM POLYSILICATE (12627-14-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg body weight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 2.06 mg/l/4h Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

Skin corrosion/irritation	: Causes skin irritation. pH: 10.9 (pH 9.7 @ 1:512 Dillution)
Serious eye damage/irritation	: Causes serious eye damage. pH: 10.9 (pH 9.7 @ 1:512 Dillution)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

LITHIUM POLYSILICATE (12627-14-4)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

Hexyl D-glucopyranoside (54549-24-5)	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard	:
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: No adverse effects expected.
Symptoms/effects after skin contact	: Causes skin irritation. Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: May cause severe irritation. redness, itching, tears. stinging. Serious damage to eyes.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.
Chronic symptoms	: None known.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life.

Hexyl D-glucopyranoside (54549-24-5)	
LC50 - Fish [1]	420 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	490 mg/l Test organisms (species): Daphnia magna

alcohols, C11-15-secondary, ethoxylated (68131-40-8)	
LC50 - Fish [1]	3 mg/l Source: The ECOTOXicology database
EC50 - Crustacea [1]	7.3 mg/l
NOEC chronic algae	0.305 mg/l

TERRAGREEN RED DIAMOND

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Non-ionic surfactant	
LC50 - Fish [1]	6 mg/l
EC50 - Crustacea [1]	2.686 mg/l Source: ECOTOX
ErC50 algae	1.4 mg/l

LITHIUM POLYSILICATE (12627-14-4)	
LC50 - Fish [1]	1108 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 800 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	260 – 310 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [2]	> 220 mg/l Test organisms (species): Daphnia magna

12.2. Persistence and degradability

TERRAGREEN RED DIAMOND	
Persistence and degradability	All organic components are readily biodegradable.

alcohols, C11-15-secondary, ethoxylated (68131-40-8)	
Persistence and degradability	Readily biodegradable.

Non-ionic surfactant	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

Hexyl D-glucopyranoside (54549-24-5)	
Partition coefficient n-octanol/water (Log Pow)	0.16 Source: Episuite

alcohols, C11-15-secondary, ethoxylated (68131-40-8)	
Partition coefficient n-octanol/water (Log Pow)	2.83 Source: Quantitative Structure Activity Relation
Bioaccumulative potential	No bioaccumulation data available.

Non-ionic surfactant	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of in accordance with relevant local regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.

TERRAGREEN RED DIAMOND

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information

In accordance with Department of Transport / Transportation of Dangerous Goods / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

TERRAGREEN RED DIAMOND

SARA Section 311/312 Hazard Classes	Refer to Section 2 for the OSHA Hazard Classification.
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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TERRAGREEN RED DIAMOND

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hexyl D-glucopyranoside (54549-24-5)

EPA TSCA Regulatory Flag

PMN - PMN - indicates a commenced PMN substance.

alcohols, C11-15-secondary, ethoxylated (68131-40-8)

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Non-ionic surfactant

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. International regulations

No additional information available

15.3. US State regulations



WARNING:

This product can expose you to 1,4-dioxane, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 06/06/2022

Full text of H-phrases

H315	Causes skin irritation
H318	Causes serious eye damage
H402	Harmful to aquatic life

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.