



Shaw[®] R2X[®] GREEN Hard Surface Cleaner - RTU

SAFETY DATA SHEET

SECTION 1 – CHEMICAL AND COMPANY IDENTIFICATION:

Product Name: R2X GREEN Hard Surface Cleaner – Ready to Use	Date Printed: 10/2/2018
Product Use/Class: General Purpose Fiber/Fabric Cleaning Solution	Product ID: S
R2XG HSC	
Supplier: Shield Industries, Inc.	Manufacturer: Shield Industries, Inc.
Address: 131 Smokehill Lane Woodstock, GA 30188 - USA	Address: 131 Smokehill Lane Woodstock, GA 30188 - USA
Telephone: 770-517-6869	24 Hour Emergency Hotline: 800-535-5053

SECTION 2 – HAZARD IDENTIFICATION:

Physical hazards:	Not applicable	-----
Health hazards:	Acute Toxicity	Category 4
	Skin sensitization	Category 2
	Eye sensitization	Category 2B

Environmental hazards: None known.
OSHA defined hazards: Not classified.

Label elements:



Signal word: Warning

Hazard statement May cause an allergic skin reaction. (H317)
 Causes serious eye irritation. (H319)

Precautionary statements:

Prevention: Wear protective gloves/protective clothing/eye protection/face protection. (P280)
 Wash hands and exposed skin thoroughly after handling. (P264)

Avoid breathing dust/fume/gas/mist/vapours/spray. (P261)
Contaminated clothing should not be allowed out of the workplace. (P272)

Response: IF SWALLOWED: Get medical advice/attention. (P301 + P313)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention. (P305 + P351 + P338+ P315)
IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. (P302, P313, P333, P352, P362, P363)

Storage: Keep out of reach of children. (P102)

Disposal: Dispose of contents/container to an approved waste disposal plant. (P501)

Hazard(s) not otherwise classified (HNOC): None.

Supplemental information: None.

SECTION 3 COMPOSITION/INFORMATION ON COMPONENTS

<u>COMPONENTS</u>	<u>CAS NUMBER</u>	<u>%</u>
Water	7732-18-5	94 - 97 %
Anionic detergent polymer	Trade Secret*	< 1 %
Functionalized anionic polymer	Trade Secret*	<1 %
Anionic polymer	Trade Secret*	<1 %
Linear alcohol ethoxylate	68439-46-3	<1 %
Proprietary preservative	Trade Secret*	0.05- 0.3 %
Fragrance Compound	N/A (Mixture)	< 0.1 %

* Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Additional Information:

Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below:
None

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing. Keep patient at rest and give oxygen if breathing is difficult. If systems continue, get medical attention.

Skin contact: Wash affected skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Keep eyes wide open and continue rinsing. Get immediate medical attention.

Ingestion: Call a physician (or poison control center) immediately. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed:

May be harmful if swallowed. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Symptoms of ingestion: Gastrointestinal irritation (nausea, vomiting, diarrhea). Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

In the event of skin, eye, or respiratory exposure: Irritation to the skin, eyes, nose, throat, and respiratory tract.

General information:

Move affected persons from dangerous area. Do not leave victim unattended. Ensure that medical personnel are aware of the material(s) involved. Show this safety data sheet to the doctor in attendance.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media:

Non-combustible. Use media appropriate for surrounding fire.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards arising from the chemical:

Combustion or thermal decomposition will evolve toxic and/or irritant vapours. Forms fumes of oxides of carbon, nitrogen, and sulfur.

Special protective equipment and precautions for firefighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and self-contained breathing apparatus (SCBA).

Fire-fighting equipment/instructions:

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up.

Specific methods:

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards:

None known.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak.

Wear appropriate protective equipment and clothing during clean-up. Do not get in eyes.

Avoid skin contact. Do not breathe vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Environmental precautions:

Contain spillages and then collect with sand, earth, diatomaceous earth, vermiculite, or any other suitable adsorbent material. Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel and authorities of all environmental releases.

Methods and materials for containment and cleaning up:

Contain spillages and then collect with sand, earth, diatomaceous earth, vermiculite, or any other suitable adsorbent material. Collect spillage. Transfer to a container for disposal or recovery. Following product recovery, flush area with water. If possible prevent water running into sewers. For waste disposal, see section 13 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Wear appropriate personal protective equipment. Smoking, eating and drinking should be prohibited in the application area. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Advice on protection against fire and explosion:

None – Product is non-combustible

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Store at temperatures not exceeding 122°F (50°C). Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Avoid storing in the presence of oxidizing or reducing agents. Protect from sunlight.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:

US. ACGIH Threshold Limit Values

<u>Components</u>	<u>CAS</u>	<u>Type</u>	<u>Value</u>
-------------------	------------	-------------	--------------

No data available to suggest that there are exposure limits for any of the component present.

Appropriate engineering controls:

Not normally required, however if ambient conditions do not provide adequate ventilation, provide sufficient mechanical ventilation (general and local exhaust) to maintain exposure below the level of overexposure from known, or apparent, adverse effects.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

Wear safety glasses with side shields (face shield or goggles).

Hand protection:

Wear appropriate chemical resistant gloves (Butyl rubber, Neoprene, or Natural rubber). Check with protective equipment manufacturer's data.

Skin protection/Other:

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection:

Not normally required.

Thermal hazards:

Not normally required.

General hygiene considerations:

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls:

Do not allow to enter drains, sewers or waterways. Avoid release to the environment. Material is toxic to aquatic life with long lasting effects.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical state: Liquid
Form: Liquid
Color: Clear to slightly hazy. pale yellow color

Odor: Characteristic, Mild, Fruity

Odor threshold: Not available.

pH: 8.0 +/- 1.0

Melting point/freezing point: Not available.

Initial boiling point and boiling range 100 °C estimated

Flash point: None noted below boiling point.

Evaporation rate: Approximately 1 (water = 1)

Flammability (solid, gas): Not applicable.

Upper/lower flammability or explosive limits:

Flammability limit – lower (%): Not available.

Flammability limit – upper (%): Not available.

Explosive limit - lower (%): Not available.

Explosive limit - upper (%): Not available.

Vapor pressure: Not available.

Relative Vapor density: Not available.

Relative density: 1.00 +/- 0.02

Solubility (water): Soluble

Partition coefficient (n-octanol/water): Not available.

Auto-ignition temperature: Not applicable.

Decomposition temperature: Not available.

Viscosity (kinematic cSt @ 40 °C): Not available.

Explosive properties: Not Explosive.

Oxidizing properties: Not Oxidizing.

Other information: None.

SECTION 10 STABILITY AND REACTIVITY

Reactivity:

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

Chemical stability:

Material is stable under normal conditions.

Possibility of hazardous reactions:

None anticipated.

Conditions to avoid:

Avoid contact with heat, ignition sources, and incompatible materials.

Incompatible materials:

Strong oxidizing agents.

Hazardous decomposition products:

At temperatures over 200 C, or under fire conditions, thermal decomposition will evolve low molecular weight organic compounds, oxides of carbon, nitrogen, and sulfur, smoke of unknown toxicity and/or irritant vapours.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: May cause mild irritation to respiratory tract.

Skin contact: May cause skin irritation and/or dermatitis.

Eye contact: Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics:

Ingestion causes gastrointestinal irritation. May cause eye irritation. May cause an allergic skin reaction.

Information on toxicological effects:

Acute toxicity:

<u>Components</u>	<u>CAS#</u>	<u>Test</u>	<u>Species</u>	<u>Test Results</u>
Linear alcohol ethoxylate	68439-46-3	Acute Oral LD50	Rat	1,378 mg/kg
		Acute Dermal LD50	Rabbit	>2,000 mg/kg
Proprietary Preservative	-----	Acute Oral LD50	Rat	670 mg/kg
		Acute Dermal LD50	Rabbit	>2000 mg/kg

Skin corrosion/irritation:

May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation:

May cause temporary irritation to the eyes

Respiratory or skin sensitization:

Respiratory sensitization:

Vapours may cause irritation.

Skin sensitization:

Components are not likely to sensitize skin.

Germ cell mutagenicity:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity:

This product is unlikely to present a carcinogenic hazard to man.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Not listed.

Repeated dose toxicity:

No data available.

Specific target organ toxicity - single exposure:

No data available.

Teratogenicity:

No data available.

Aspiration hazard:

No data available.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: This material is not expected to be toxic to aquatic life based upon the low levels of toxic components present in the mixture.

Acute Toxicity:

<u>Components/CAS</u>	<u>Test</u>	<u>Species</u>	<u>Test Results</u>
Linear alcohol	Aquatic Fish LC50	Fathead minnow(<i>Pimephales promelas</i>)	5-8.5 mg/l, 96 hr.
ethoxylate / 68439-46-3	Aquatic Invertebrates EC50	Water flea (<i>Daphnia magna</i>)	5.3 - 10 mg/l, 48 hr.

Long Term Toxicity:

<u>Components/CAS</u>	<u>Test</u>	<u>Species</u>	<u>Test Results</u>
Linear alcohol ethoxylate / 68439-46-3	NOEC	Algae	<1 mg/l (72 hour)

Persistence and degradability:

Linear alcohol ethoxylate: Readily biodegradable. (> 60-70%/ 28 day)

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Results of PBT and vPvB assessment:

Not classified as PBT or vPvB.

Other adverse effects:

None known.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment/disposal instructions:

Disposal should be in accordance with local, state, or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Waste from residues / unused products:

Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with local regulations.

Contaminated packaging:

Exercise caution as empty containers or liners may retain some product residues. Do not re-use empty containers. Do not burn, or use a cutting torch on, empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 TRANSPORT INFORMATION

DOT

UN number: Not applicable
UN proper shipping name: Cleaning compounds N.O.S.
Transport hazard class(es):
Class: Not applicable
Subsidiary risk: -
Label(s): Not applicable
Packing group: Not applicable
Special precautions for user:
Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Environmental hazards: No
Special provisions: None Assigned
Packaging exceptions:
None – Not classified as dangerous for transportation
Packaging bulk:
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not applicable

IATA

UN number: Not applicable
UN proper shipping name: Cleaning compounds N.O.S.
Transport hazard class(es):
Class Not applicable
Subsidiary risk -
Label(s) Not applicable
Packing group Not applicable
Environmental hazards No
ERG Code Not applicable
Special precautions for user:
Read safety instructions, SDS and emergency procedures before handling. Read Safety instructions, SDS and emergency procedures before handling.
Packaging bulk:
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not applicable

IMDG

UN number: Not applicable
UN proper shipping name: Cleaning compounds, n.o.s.
Transport hazard class(es):
Class: Not applicable
Subsidiary risk: -
Label(s): Not applicable
Packing group: Not applicable
Environmental hazards:
Marine pollutant: No

Special precautions for user:

Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Packaging bulk:

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not applicable

SECTION 15 REGULATORY INFORMATION

US federal regulations:

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA (Toxic Substance Control Act) –

All components are on the U.S. EPA TSCA Inventory List or polymer exempt.

CERCLA Hazardous Substance List (40 CFR 302.4)

No Listed materials.

SARA 311/312 – Superfund Amendments and Reauthorization Act of 1986:

Hazard categories:

Immediate Hazard	Yes
Delayed Hazard	Yes
Fire Hazard	No
Sudden Release	No
Reactivity	No

SARA 313 – Toxic Chemicals (40 CFR 372):

No Listed materials.

SARA 302 Threshold Planning Quantity:

Not regulated.

Other federal regulations:

Clean Air Act (CAA) Ozone-Depletion Potential:

This product neither contains, nor was manufactured with a Class I, or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

US state regulations

California Proposition 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive effects.

SECTION 16 OTHER INFORMATION

NFPA RATING: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

PREPARATION INFORMATION:

DATE CREATED: 01/01/06 LAST REVISION: 08/16/2018

CREATED/REVISED BY: R. Lasnik

This information relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

End of SDS