

TNG Worldwide

Product Name: RESTORE-A-DECK STAIN STRIPPER BOOSTER ADDITIVE

SECTION 1	PRODUCT AND COMPANY IDENTIFIER
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PRODUCT IDENTIFIER

Product Name RESTORE-A-DECK STAIN STRIPPER BOOSTER ADDITIVE
Product Form Liquid

RECOMMENDED USE AND RESTRICTIONS ON USE

Concentrated Deck Stripper

COMPANY IDENTIFICATION

Supplier RAD OPW LLC
2388 Franklin Rd
Bloomfield Hills, MI

EMERGENCY TELEPHONE NUMBER

24 Hour Emergency Phone Number (Health & Safety; Transportation) INFOTRAC - (800) 535-5053

SECTION 2	HAZARDS IDENTIFICATION
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GHS CLASSIFICATION

Product has not been tested as a whole to determine its GHS classification. Hazard categories are based on individual ingredient hazard categories. Refer Section 16 for additional GHS Phrases.

HAZARD CLASS	HAZARD CATEGORY
Flammable liquids	4
Acute toxicity, inhalation	4
Acute toxicity, oral	4
Skin corrosion/irritation	1B
Eye damage/eye irritation	1

GHS LABEL ELEMENTS

Pictogram



GHS Signal Word
DANGER

GHS Hazard Phrases

Combustible liquid
Harmful if inhaled
Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage

GHS Precaution Phrases

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Wash skin thoroughly after handling.

N/D = Not Determined N/A = Not Applicable N/AV = Not Available

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Do not eat, drink or smoke when using this product.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

GHS Response Phrases

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Wash contaminated clothing before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

GHS Storage and Disposal Phrases

Keep out of reach of children.

Store in a well-ventilated place. Keep cool.

Store locked up

Dispose of waste in accordance with local, state and federal legislation.

POTENTIAL HEALTH EFFECTS (Acute and Chronic)**Chronic:** Product has not been tested as a whole to determine its acute and long-term effects. The product does contain ingredients that potentially may affect from repeated excessive exposures.**Acute- Inhalation** May cause irritation of the respiratory tract.**Acute-Skin Contact** Causes severe burns.**Acute-Eye Contact** Causes serious eye damage.**Acute-Ingestion** Harmful if swallowed.

SECTION 3	COMPOSITION / INFORMATION INGREDIENTS
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Chemical Name	Cas Number	Percentage Range
Benzyl alcohol	100-51-6	45 – 55
Monoethanolamine	141-43-5	15 – 25
2-butoxyethanol	111-76-2	10 - 20
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5
Sodium (C10-16) benzenesulfonate	68081-81-2	1 - 5

SECTION 4	FIRST AID MEASURES
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IN CASE OF INHALATION

Move person to fresh air; if effects occur, consult a physician.

IN CASE OF SKIN CONTACT

Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.

IN CASE OF EYE CONTACT

Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

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IN CASE OF INGESTION

Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

SIGNS AND SYMPTOMS OF EXPOSURE

The chemical, physical, and toxicological properties of the product have not been investigated to determine signs and symptoms of exposure.

NOTE TO PHYSICIAN

Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5	FIRE FIGHTING MEASURES
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Flashpoint	> 141 °F
Flashpoint Method	TOC

Explosive Limits	LEL: N/AV UEL: N/AV
Auto Ignition Point	N/D

SUITABLE EXTINGUISHING MEDIA

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.

FIRE FIGHTING INSTRUCTIONS

Keep people away. Isolate fire and deny unnecessary entry. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

FLAMMABLE PROPERTIES AND HAZARDS

Hazardous combustion products: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Unusual Fire and Explosion Hazards: Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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SAFETY PRECAUTIONS

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Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

CONTAINMENT AND CLEANUP

Small spills: Absorb with materials such as: Sand. Vermiculite. Collect in suitable and properly labeled containers. Large spills: Contain spilled material if possible. Pump into suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

SECTION 7	HANDLING AND STORAGE
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PRECAUTIONS TO BE TAKEN IN HANDLING

Avoid contact with eyes. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

PRECAUTIONS TO BE TAKEN IN STORAGE

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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Cas Number	Chemical Name	OSHA TWA	ACGIH TWA
141-43-5	Monoethanolamine	3 mg/m ³	3 mg/m ³
111-76-2	2-butoxyethanol	240 mg/m ³	121 mg/m ³

ENGINEERING CONTROLS

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

WORK/HYGIENIC/MAINTENANCE PRACTICES

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing separate from home laundry and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Do not store work clothing and protective equipment in the same locker as personal clothing.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge.

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Hand Protection

Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Polyethylene. Chlorinated polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Viton. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection) potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

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 and/or face shield.

Skin and Body Protection

Wear clean, body-covering clothing

OTHER PROTECTIVE EQUIPMENT N/A

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, pale yellow
Physical State	Liquid
Odor	Ammoniacal
pH	12.00 to 14.00 (10% w/w water)
Freezing Point	N/D
Boiling Point	212 °F initial

Specific Gravity (water = 1)	1.00 – 1.02
Vapor Pressure	N/D
Evaporation Rate (water = 1)	N/D
Viscosity	N/D
Volatile Organic Compound (%)	N/D
Solubility in Water	Miscible

SECTION 10 STABILITY/REACTIVITY

Chemical Stability

Unstable [] **Stable** [X]

Conditions to Avoid

Exposure to elevated temperatures can cause product to decompose.

Reactivity / Incompatibility

Avoid contact with: Strong acids. Strong oxidizers. Product may potentially react with various halogenated organic solvents, resulting in temperature and/or pressure increases Corrosive when wet. Heating above 60°C in the presence of aluminum can result in corrosion and generation of flammable hydrogen gas. Avoid unintended contact with: Halogenated hydrocarbons.

Hazardous Decomposition

Decomposition products depend upon temperature, air supply and the presence of other materials.

Hazardous Reactions

Will occur [] **Will not occur** [X]

SECTION 11 TOXICOLOGICAL INFORMATION

CARCINOGENICITY

Product is not tested for carcinogenicity. No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen, except as identified below;

IARC: N/A

ACGIH: N/A

NTP: N/A

PRODUCT TOXICOLOGICAL DATA

Product is not tested for classification under the following categories:

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LD50 (Oral), LC50 (Inhalation), Dermal Toxicity (Skin), Skin Corrosion/Irritation, Serious Eye Damage/Irritation, Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard

INGREDIENT TOXICOLOGICAL DATA

None of the ingredients above 1% concentration (0.1% for carcinogens) trigger the hazard rating or classify under the following categories, unless indicated below:

LD50 (Oral), LC50 (Inhalation), Dermal Toxicity (Skin), Skin Corrosion/Irritation, Serious Eye Damage/Irritation, Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard

Cas Number	Chemical Name		
100-51-6	Benzyl alcohol	LD50 Oral (rat)	1, 620 mg/kg
		LC50 Inhalation (rat), 4 hr., aerosol	4.178 mg/l estimated
141-43-5	Monoethanolamine	LD50 Oral (rat)	1,089 mg/kg
		LD50 Dermal (rat)	2,504 mg/kg
		LC50 Inhalation (rat), 4 hr., vapor	1.48 mg/l estimated
111-76-2	2-butoxyethanol	LD50 Oral (rat)	>300 – 2,000 mg/kg
		LD50 Dermal (rabbit)	1,000 to 2,000 mg/kg
		LC50 Inhalation (rat), 4 hr., vapor	>10 – 20 mg/l
68439-46-3	Alcohols, C9-11, ethoxylated	LD50 Oral (rat)	>2,000 mg/kg
		LD50 Dermal (rabbit)	>2,000 mg/kg
68081-81-2	Sodium (C10-16) benzenesulfonate	LD50 Oral (rat)	>2,000 mg/kg
		LD50 Dermal (rabbit)	>2,000 mg/kg

SECTION 12	ECOLOGICAL INFORMATION
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General Ecological Information	N/AV.	Persistence and Degradability	N/AV
Bioaccumulative Potential	N/AV.	Mobility in Soil	N/AV

INGREDIENT TOXICOLOGICAL DATA

Cas Number	Chemical Name		
100-51-6	Benzyl alcohol	LC50 96 hr. fish	460 mg/l
		EC50 48 hr. crustacea	230 mg/l
		ErC50 72 hr. algae, growth rate inhibition	770 mg/l
141-43-5	Monoethanolamine	LC50 96 hr. fish	349 mg/l
		EC50 48 hr. crustacea	65 mg/l
		ErC50 72 hr. algae, growth rate inhibition	2.5 mg/l
111-76-2	2-butoxyethanol	LC50 96 hr. fish	>100 mg/l
		EC50 48 hr. crustacea	>100 mg/l
		ErC50 72 hr. algae, growth rate inhibition	>100 mg/l
68439-46-3	Alcohols, C9-11, ethoxylated	LC50 96 hr. fish	5 – 10 mg/l

N/D = Not Determined N/A = Not Applicable N/AV = Not Available

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		EC50 48 hr. crustacea	5 – 10 mg/l
		ErC50 72 hr. algae	10 – 100 mg/l
68081-81-2	Sodium (C10-16) benzenesulfonate	LC50 96 hr. fish	1.67 mg/l
		EC50 48 hr. crustacea	2.4 mg/l
		ErC50 96 hr. algae	29 mg/l

SECTION 13	DISPOSAL CONSIDERATION
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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Contaminated Packaging	Dispose of as unused product.
Empty Containers	Clean empty containers of any residue per 40CFR261.7 guidelines and either recycle containers or dispose of in normal trash.

SECTION 14	TRANSPORT INFORMATION
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	LAND (US DOT)		
Proper Shipping Name	Corrosive liquid, basic, organic, n.o.s. (ethanolamine)		
Hazard Class	8		
ID Number	UN3267		
Packing Group	III		

Additional Information

DOT Quantity Limitation: Per 49 CFR §173.154 (b) (2), this product qualifies for the LIMITED QUANTITIES exception when packaged in inner packaging not over 5.0 L (1.3 gallons) net capacity each, packed in a strong outer packaging. This does not apply to transportation by vessel or aircraft.

DOT Label for Limited Quantities: N/A

SECTION 15	REGULATORY INFORMATION
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EPA SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986) LISTS

[302 (EHS) TPQ, 304 RQ, 313 TRI]

313

111-76-2	2-butoxyethanol
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SARA TITLE III SECTION 311/312 CATEGORIZATION (40 CFR 370)	YES	NO
Acute (Immediate) Health Hazard	X	
Chronic (Delayed) Health Hazard		X
Fire Hazard	X	
Sudden Release of Pressure Hazard		X

N/D = Not Determined N/A = Not Applicable N/AV = Not Available

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Reactive Hazard		X
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STATE AND OTHER US EPA REGULATIONS

California Prop. 65 N/A

WHMIS CLASSIFICATION (1988) N/D

NATIONAL INVENTORIES

TSCA	Yes
CAA HAP, ODC	No
CWA NPDES	N/D
CEPA (DSL/NDL)	N/D
KECI	N/D

AICS	N/D
IECSC	N/D
EINECS	N/D
ENCS	N/D
PICCS	N/D

SECTION 16	OTHER INFORMATION
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ADDITIONAL GHS PHRASES

GHS phrases provided below are in addition to the phrases available in Section 2. GHS phrases are identified in accordance with GHS regulations and are triggered for each hazard category.

N/A

NFPA RATING HEALTH: 3 FIRE: 2 REACTIVITY: 0
HMIS RATING HEALTH: 3 FIRE: 2 REACTIVITY: 0

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

N/A

USER RESPONSIBILITY It is the user's responsibility to determine the suitability and adopt precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of this product.

PREPARED BY

Authorized supplier of RAD OPW LLC

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