

RestoraClean 0988

Cleaner

Safety Data Sheet (SDS)

Section 1 - Product and Company Identification

Trade Name: RestoraClean 0988 (All Versions)

Company:

Wolverine Coatings Corporation 5969 US Highway 221 Roebuck, SC 29376 +1 (864) 587-3144 Product Code: RestoraClean 0988

Emergency Contact:

Not recommended for:

ChemTel 24 Hr. US Emergency Number: +1 (800) 255-3924 ChemTel 24 Hr. Worldwide Emergency Number: +1 (813) 248-0585

Product Use: Inorganic Acidic Cleaner

Section 2 - Hazards Identification

GHS Ratings:

Skin Corrosive Eye Corrosive	1A 1	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal Serious eye damage: Irreversible damage 21 days after exposure,
	•	Draize score: Corneal opacity $>= 3$, Iritis > 1.5
GHS Hazards		
H314	Cause	es severe skin burns and eye damage
H318	Cause	es serious eye damage
GHS Precautions		
P260	Do no	t breathe dust/fume/gas/mist/vapours/spray
P264	Wash	thoroughly after handling
P280	Wear	protective gloves/protective clothing/eye protection/face protection
P310	Immed	diately call a POISON CENTER or doctor/physician
P321	Specif	ic treatment (see label)
P363	Wash	contaminated clothing before reuse
P301+P330+P331		ALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353		SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse ith water/shower
P304+P340		IALED: Remove victim to fresh air and keep at rest in a position comfortable eathing
P305+P351+P338	IF IN E	EYES: Rinse continuously with water for several minutes. Remove contact is if present and easy to do – continue rinsing
P405		locked up
P501		se of contents/container in accordance with all local, regional, national, and
		ational regulations.

Signal Word: Danger



Section 3 - Composition / Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
2-butoxyethanol	111-76-2	5.00% - 10.00%
Hydrofluoric Acid	9664-39-3	5.00% - 10.00%
Sulfuric Acid	7664-93-9	1.00% - 5.00%
Nonylphenol Ethoxylate	9016-45-9	1.00% - 5.00%

Section 4 - First Aid Measures

Inhalation: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Eye Contact: Immediately flush eyes for at least fifteen minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If eye irritation persists: Get medical advice/attention.

Skin contact: Immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Get immediate medical attention.

 Flash Point:
 N/A
 LEL:
 UEL:

 Extinguishing Media:
 Use carbon dioxide, foam, dry chemical, dry sand, water fog, or limestone powder extinguishing systems.
 Use carbon dioxide, foam, dry chemical, dry sand, water fog, or limestone powder

Unusual Fire and Explosion Hazards: None

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Stability and Reactivity) for additional information.

Special Fire Fighting Procedures: Firefighters should be equipped with self-contained breathing apparatus. **Fire Equipment:** No Data

Section 6 - Accidental Release Measures

Spill And Leak Procedures: Avoid all personal contact. Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Spills should be contained, solidified, and placed in suitable containers for disposal.

Section 7 - Handling and Storage

Handling Precautions: Use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

Storage Requirements: Keep away from heat, sparks, and open flames. Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection						
Chemical Name / CAS # OSHA Exposure Limits ACGIH Exposure Limits Other Exposure Limits						
SDS: RestoraClean 0988		Wolverine Coatings Corpo www.wolverinecoatings.com - (864) 58		Page 2 of 5		

2-butoxyethanol 111-76-2	PEL: 50ppm	TWA:20ppm	Not Established
Hydrofluoric Acid 9664-39-3	TWA: 2.5 mg/m3 8hr STEL: 6ppm 15min	C: 2ppm TWA: 0.5ppm, 8hr	Not Established
Sulfuric Acid 7664-93-9	TWA (vacated): 0.2mg/m3 TWA: 1mg/m3	TWA: 0.2mg/m3	Not Established
Nonylphenol Ethoxylate 9016-45-9	Not Established	Not Established	Not Established

Ventilation: Good general mechanical ventilation and local exhaust is recommended.

Hygiene: Eye wash must be easily accessible. Wear protective clothing as necessary to prevent contact. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Gloves must be inspected regularly and prior to each use. Replace if necessary.

Personal Protective Equipment: Wear impervious protective gloves. Wear OSHA, NIOSH approved organic vapor respirator if ventilation is inadequate. Wear appropriate protective eyewear such as splash-proof, chemical resistant safety goggles.

Contaminated Gear: Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.

Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

Appearance	Viscous liquid	Odor	Not Avaiilable
Physical State	Liquid	Vapor Density	2.55
Vapor Pressure	0.89	Boiling Range	20 to 290 °C
Specific Gravity (SG)	1.000	Lbs VOC/Gallon Less Water	0.00

Section 10 - Stability and Reactivity

Stability:

STABLE

Components of this mixture are incompatible with the following materials:

Strong Oxidizers Combustible materials Organic materials Powdered metals Peroxides Strong Bases

This mixture is likely to exhibit the following combustion products:

Carbon Dioxide, Carbon Monoxide Hydrogen Sulphur oxides

Hazardous polymerization will occur.

Section 11 - Toxicological Information

Mixture Toxicity:

Inhalation Toxicity LC50: 45mg/L

Component Toxicity:

111-76-2 2-butoxyethanol

SDS: RestoraClean 0988

9664-39-3 7664-93-9 9016-45-9	Hydrofluoric Ac Inhalation LC50 Sulfuric Acid	id : 1,276 ppm (r. 0 mg/kg (Rat) hoxylate) Inhalation LC50: 5 mg/L (rat)
Routes of Entry:					
Inhalation	Skin Contact	Eye Contac	ct Ingestic	on	
Exposure to this Respiratory Sy		ect the follow	ving organs:		
The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing): <u>CAS Number</u> <u>Description</u> <u>% Weight</u> <u>Carcinogen Rating</u> None No Data					
	-	-		<u>Veight</u> <u>Ca</u>	arcinogen Rating
None	-	ion		<u>Veight</u> <u>Ca</u>	arcinogen Rating
None	<u>Descript</u> logical Informatio	<u>ion</u> on	<u>% \</u>	<u>Veight</u> <u>Ca</u> No	arcinogen Rating
None Section 12 - Eco Component Ecot	<u>Descript</u> logical Informatio	n LC50 1474mg algae 72hr	<u>% \</u>	<u>Veight</u> <u>Ca</u> No 0 1550mg/l wat	arcinogen Rating o Data ter flea 48hr; EC50 1840 mg/l

Section 13 - Disposal Considerations

Waste disposal Methods: Dispose in accordance with Federal, State and Local regulations.

Section 14 - Transport Information

This material is classified for transport as follows:

Agency	Proper Shipping Name	<u>UN Number</u>	Packing Group	Hazard Class
DŌT	Corrosive liquids, N.O.S. (Contains Sulfuric, Hydrofluor ilc760 id)		8
IATA				
IMDG				

Section 15 - Regulatory Information

Additional regulatory listings, where applicable:

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin: Sulfuric Acid 7664-93-9

Materials not included on the Canada DSL inventory:

Commonwealth of Massachusetts "Right to Know": This product contains the following toxic or hazardous substances which appear on the Massachusetts Substance List:

Sulfuric Acid 7664-93-9 2-butoxyethanol 111-76-2 Hydrofluoric Acid 9664-39-3

NJ "Right to Know": This product contains the following toxic or hazardous substances which appear on the New Jersey Substance List:

SDS: RestoraClean 0988

Sulfuric Acid 7664-93-9 2-butoxyethanol 111-76-2 Hydrofluoric Acid 9664-39-3

Pennsylvania "Right to Know": This product contains the following toxic or hazardous substances which appear on the Pennsylvania Substance List:

Sulfuric Acid 7664-93-9 Hydrofluoric Acid 9664-39-3 2-butoxyethanol 111-76-2

EPA SARA Title III Section 313 (40 CFR 372) components above 'de minimum' level:

Nonylphenol Ethoxylate 9016-45-9 Sulfuric Acid 7664-93-9 2-butoxyethanol 111-76-2 Hydrofluoric Acid 9664-39-3

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory: Hydrofluoric Acid 9664-39-3

<u>Country</u>

Regulation

All Components Listed

EU Risk Phrases

Safety Phrase

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

EPA SARA Title III Section 313 (40 CFR 372) compnenets above 'de minimum' level:

Section 16 - Other Information

For further information, please contact the Product Safety director. The information and recommendations contained herein are, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. No representations or warranties, either expressed or implied of merchantability, fitness for a particular purpose, or any other nature, are made hereunder with respect to the information contained herein, or to the chemical to which the user refers.

Date Revised: 2023-01-13

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