

Fortify HWE: Pre-Spray

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SECTION I - IDENTIFICATION
PRODUCT NAME: Grab® Fortify HWE Prespray

SECTION II - COMPOSITION/INFORMATION ON COMPONENTS			
COMPONENTS	CAS NUMBER	%	TLV
Water	7732-18-5	93-96	None
Phosphate salt	Proprietary	3-5	None
Non-hazardous ingredients	Mixture	1-2	None

SECTION III - HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW: Eye Irritant.
IMMEDIATE HEALTH EFFECTS

EYES: Direct contact of liquid or mists may cause mild reversible eye irritation.
SKIN: Overexposure may cause defatting and mild irritation.
INGESTION: Swallowing large amounts may be harmful.
INHALATION: Short term inhalation of vapor or mist may cause irritation of the nose, throat, or respiratory tract. Breathing large amounts of mist may result in pneumonitis or pulmonary edema.
PRIMARY ROUTES OF ENTRY: Eye contact, skin contact. Significant ingestion is not expected to occur during professional/industrial use. Inhalation may be a concern if sprayed or heated during processing or use.

SIGNS/SYMPTOMS OF OVEREXPOSURE:
EYES: Swelling, tearing, redness itching or burning
SKIN: Swelling, itching, burning, tingling, or redness.
INHALATION: Coughing, shortness of breath, light-headedness; itching or burning in the mouth, nose, chest, or throat.
INGESTION: Nausea, vomiting, upset stomach.
TARGET ORGANS: None
REPRODUCTIVE/DEVELOPMENTAL INFORMATION: No data available.
CARCINOGENIC INFORMATION: No IARC, NTP, or ACGIH carcinogens present at >0.1%

SECTION IV - FIRST AID MEASURES
EYES: Flush eyes with water for at least 15 minutes. If irritation persists, consult a physician.
SKIN: If irritation occurs, flush skin with water for at least 15 minutes. If irritation persists, consult a physician
INHALATION: If symptoms of overexposure develop, remove to fresh air. If symptoms persist, consult a physician.
INGESTION: Give 8 to 16 ounces of water or milk to dilute substance. Do not induce vomiting. Consult a physician or local Poison Control Center. Never give anything by mouth to an unconscious person.

SECTION V - FIRE FIGHTING MEASURES
FLASHPOINT (° Fahrenheit): None (aqueous)
EXPLOSIVE LIMITS: No data available.
AUTOIGNITION TEMPERATURE: None (aqueous)
HAZARDOUS PRODUCTS OF COMBUSTION: In case of fire or extreme heat, the following may be produced: oxides of carbon, nitrogen, phosphorus, and toxic products such as hydrogen fluoride, carbonyl fluoride, and other fluorinated or phosphorylated organic compounds.
EXTINGUISHING MEDIA: Water spray or fog, foam, dry chemical powder of carbon dioxide.
FIRE FIGHTING INSTRUCTIONS: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers from rupturing.

NFPA RATINGS:
 Health: 1; Flammability: 0; Reactivity: 0

SECTION VI - ACCIDENTAL RELEASE MEASURES
SMALL SPILL: For small spills, soak up material with an absorbent such as clay, sand, or other suitable material. Properly dispose of contaminated product, absorbents, and rinsates.
LARGE SPILL: Wear protective clothing as appropriate. Shut off source of leak if it is safe to do so.
 Dike and contain spilled material. Remove with vacuum trucks or pump to storage/salvage containers. Soak up residue with an absorbent such as clay, sand, or other suitable material. Properly dispose of contaminated product, absorbents, and rinsates.

SECTION VII - HANDLING AND STORAGE
HANDLING: Handle and open containers with care. Keep containers closed whenever possible to prevent contamination. Do not process at high temperatures. Degradation products are toxic.
STORAGE: Store in a cool, well ventilated place away from incompatible materials or excessive heat. Protect material from direct sunlight. Perishable if frozen.

SECTION VII - EXPOSURE CONTROLS / PERSONAL PROTECTION
EYE/FACE PROTECTION: Safety goggles are recommended if splashing is possible. Consult your safety contact for help selecting appropriate eye protection.
SKIN PROTECTION: Impervious gloves recommended. Minimize skin contact.
RESPIRATORY PROTECTION: Use in areas with good general ventilation. A NIOSH/MSHA approved respirator is advised in absence of proper environmental control. Consult your safety representative for respirator selection. Engineering controls or administrative controls should be implemented to reduce exposure.

For spray applications, use a coarse spray device such as a trigger sprayer with particle size production greater than 15 microns. Use only low pressure (less than 60 psi) sprayer. DO NOT aerosolize or atomize. Suitable ventilation must be used during application.

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation in areas where the product may be heated or sprayed. Do not process at high temperatures. Degradation products are toxic.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES
Appearance: hazy white liquid
pH: approximately 9
VAPOR PRESSURE: similar to water
VAPOR DENSITY: similar to water
BOILING POINT: approximately 212°F
SOLUBILITY IN WATER: Dispersible
DENSITY: Approximately 1.02

SECTION X - STABILITY AND REACTIVITY
CHEMICAL STABILITY: Stable.
CONDITIONS TO AVOID: Protect from Freezing. Perishable is frozen.
MATERIALS TO AVOID: Strong oxidizing or reducing materials.
HAZARDOUS DECOMPOSITION: Under extremely high temperatures the following may be produced: oxides of carbon, nitrogen, phosphorus, and toxic products such as hydrogen fluoride, carbonyl fluoride, and other fluorinated or phosphorylated organic compounds.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION
ACUTE: This material has not been tested.
REPEAT DOSE: This material has not been tested.
CARCINOGENICITY: None of the components of this material are listed as carcinogens by IARC, NTP, or OSHA. TERATOGENICITY, MUTAGENICITY, OR OTHER REPRODUCTIVE EFFECTS: This material has not been tested.

SECTION XII - ECOLOGICAL INFORMATION
AQUATIC TOXICITY: This material has not been tested.
BIODEGRADATION: Not known.

SECTION XIII - DISPOSAL CONSIDERATIONS
WASTE DISPOSAL INFORMATION: If this product becomes a waste, it may meet one or several criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40CFR261, depending upon what it is mixed with. Dispose of in accordance with all applicable federal, state, and local regulations.

SECTION XIV - TRANSPORT INFORMATION
ALL MODES:
PROPER SHIPPING NAME: Not regulated
HAZARD CLASS: none
IDENTIFICATION NUMBER: none
PACKING GROUP: none

SECTION XV - REGULATORY INFORMATION
US FEDERAL REGULATIONS
TSCA Status: All components are listed or otherwise in compliance with notification requirements.

CERCLA Reportable Quantities – 40CFR302:
 Components with known CAS numbers listed as hazardous substances and subject to reporting: None

SARA 302/304 – 40CFR355:
 Components listed as extremely hazardous substances and known to be present at or above de minimum levels as specified in 40 CFR§355.13: None

SARA 311/312 – 40 CFR370:
 Acute Yes
 Chronic No
 Fire No
 Pressure No
 Reactivity No

SARA 313 – 40CFR372:
 Components listed as reportable and known to be present at or above the minimum levels as specified in 40 CFR§372.38(a): None

STATE AND LOCAL REGULATIONS
 California Proposition 65:
 This product may contain the following chemicals known to the State of California to cause cancer or reproductive harm: None

SECTION XVI - OTHER INFORMATION
 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.

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