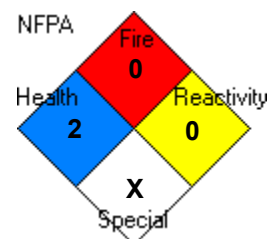


**MSDS - Material Safety Data Sheet****Product Name: Mineral Minus (SPA)**

MSDS No.: 039940

**Part Numbers Covered:**

039940

**I. Basic Information:****Manufacturer:** WILLIAM H. HARVEY COMPANY**Address:** 4334 SOUTH 67TH STREET**City, ST Zip:** OMAHA, NE 68117-1019**Emergency Contact:** CHEMTREC**Emergency Telephone Number:** (800)424-9300**Contact:** Ray Rael / Jason Hertz**Information Telephone Number:** (800)228-9681**Last Update:** 07/08/2002**Expiration Date:****Chemical State:**  Liquid  Gas  Solid**Chemical Type:**  Pure  Mixture

2	Health
0	Flammability
0	Reactivity
C	Pers. Protection

**II. Ingredients:** Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
7664382	ORTHOPHOSPHORIC ACID	NI						.25 PPM	.25 PPM	NI	

**III. Hazardous Identification:****Hazard Category:**
 Acute  Chronic  Fire  Pressure  Reactive
**Hazardous Identification Information:**

NDA

**IV. First Aid Measures:****Route(s) of Entry:**

SKIN CONTACT

**Health Hazards (Acute and Chronic):**

NI

**Signs and Symptoms:**

# MSDS - Material Safety Data Sheet

## Product Name: Mineral Minus (SPA)

### MSDS No.: 039940

EYES: EYE CONTACT WITH PRODUCT MAY CAUSE SEVERE IRRITATION, BURNS PROLONGED OR REPEATED EYE CONTACT MAY CAUSE IRREVERSIBLE DAMAGE, BLINDNESS

SKIN: CONTACT MAY CAUSE SEVERE IRRITATION

INHALATION: MAY CAUSE IRRITATION, COUGHING

INGESTION: MAY CAUSE IRRITATION, BURNS, PAIN, NAUSEA, VOMITING, SHOCK SYMPTOMS (RAPID PULSE, SWEATING, COLLAPSE)

### Medical Conditions Generally Aggravated by Exposure:

SKIN AND RESPIRATORY SYSTEM

### Emergency and First Aid Procedures:

EYES: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, WHILE HOLDING EYELIDS APART TO ENSURE FLUSHING OF ENTIRE SURFACE. CALL A PHYSICIAN.

SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. THOROUGHLY CLEAN CLOTHING BEFORE REUSE. DISCARD CONTAMINATED SHOES AND CONTAMINATED LEATHER ARTICLES. CALL A PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DILUTE STOMACH CONTENTS BY DRINKING WATER. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT BREATHING VOMIT INTO LUNGS. CALL A PHYSICIAN IMMEDIATELY.

EMERGENCY FIRST AID CALL: 1-303-623-5716 COLLECT

### Other Health Warnings:

NI

## V. Fire Fighting Measures:

Flash Point: NI

Lower Explosive Limit: NI

Upper Explosive Limit:

F.P. Method:

Fire Extinguishing Media: MEDIA APPROPRIATE FOR SURROUNDING FIRE

### Special Fire Fighting Procedures:

NOT CONSIDERED A FIRE HAZARD.

### Unusual Fire and Explosion:

NONE CURRENTLY KNOWN

## VI. Accidental Release Measures:

### Steps to be Taken in Case Material is Released or Spilled:

EVACUATE NON ESSENTIAL PERSONNEL, ELIMINATE IGNITION SOURCES, AND WEAR PROTECTIVE EQUIPMENT. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. CONTAIN SPILL. RECOVER FREE PRODUCT. TO CLEAN UP RESIDUE, FLUSH SPARINGLY WITH WATER OR USE AN ABSORBENT. AVOID RUNOFF TO GROUND WATER, SURFACE WATERS, AND SEWERS. IT MAY BE NECESSARY TO REMOVE CONTAMINATED SOIL. IF PRODUCT IS FLAMMABLE OR COMBUSTIBLE, USE NON SPARKING TOOLS. IF ACIDITY (LOW PH) IS A PROBLEM, NEUTRALIZE WITH HYDRATED LIME, SODA ASH, OR SODIUM BICARBONATE. IF ALKALINITY (HIGH PH) IS A PROBLEM NEUTRALIZE WITH DILUTE ACETIC ACID OF DILUTE HYDROCHLORIC (MURIATIC) ACID. IF REQUIRED, NOTIFY STATE AND LOCAL AUTHORITIES. PRODUCT MAY BE TOXIC TO FISH OR AQUATIC LIFE.

## VII. Handling and Storage:

### Precautions to be Taken:

# MSDS - Material Safety Data Sheet

## Product Name: Mineral Minus (SPA)

### MSDS No.: 039940

KEEP HEAT, LIGHTS, FIRE, AND SPARKS AWAY. FOR INDUSTRIAL USE ONLY. ATTENTION: THIS CONTAINER HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINER CONTAINS PRODUCT RESIDUES (VAPOR OR LIQUID), ALL LABELED HAZARD PRECAUTIONS MUST BE OBSERVED.

KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE IN A COOL DRY PLACE. STORE IN ACCORDANCE WITH NFPA REQUIREMENTS. KEEP OUT OF REACH OF CHILDREN.

### Other Precautions:

NI

## VIII. Exposure Controls/Personal Protection:

### Ventilation Requirements:

ADEQUATE VENTILATION IS REQUIRED TO MINIMIZE EXPOSURE OR TO MAINTAIN EXPOSURE LEVELS BELOW OSHA/ACGIH REQUIREMENTS. LOCAL MECHANICAL VENTILATION MAY BE REQUIRED.

### Personal Protective Equipment:

EYES: CHEMICAL GOGGLES, FACESHIELD. ALWAYS WEAR EYE PROTECTION WHEN WORKING WITH CHEMICALS. DO NOT WEAR CONTACT LENSES WHEN WORKING WITH CHEMICALS.

SKIN: ACID PROOF GLOVES, CLEAN BODY COVERING CLOTHING, RUBBER APRON, RUBBER BOOTS  
INHALATION: IF EXPOSURE LIMITS ARE EXCEEDED, OR IF EXPOSURE MAY OCCUR, USE A NIOSH/MSHA RESPIRATOR APPROVED FOR YOUR CONDITIONS OF EXPOSURE. REFER TO THE MOST RECENT NIOSH PUBLICATIONS CONCERNING CHEMICAL HAZARDS, OR CONSULT YOUR SAFETY EQUIPMENT SUPPLIER. RESPIRATORY PROTECTION PROGRAMS MUST BE IN COMPLIANCE WITH OSHA REQUIREMENTS IN 29 CFR 1910-134. FOR EMERGENCIES, A NIOSH/MSHA APPROVED POSITIVE PRESSURE BREATHING APPARATUS SHOULD BE READILY AVAILABLE.

## IX. Physical and Chemical Properties:

Boiling Point: 275 F D

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1): NI

Vapor Pressure (mm Hg.): 5.7

Specific Gravity (H2O = 1): 1.57300

Vapor Density (AIR = 1): NI

Solubility In Water: COMPLETE

Appearance and Odor: COLORLESS TO LIGHTLY COLORED LIQUID

### Other Information:

## X. Stability and Reactivity:

### Stability:

STABLE

### Incompatibility (Materials to Avoid):

INORGANIC BASES, ORGANIC BASES, METAL/METAL BLENDS. CONTACT WITH SOME METALS CAN GENERATE EXPLOSIVE HYDROGEN GAS.

### Decomposition/By Products:

OXIDES OF PHOSPHOROUS

### Hazardous Polymerization:

WILL NOT OCCUR

## XI. Toxicological Information:

NDA

# MSDS - Material Safety Data Sheet

**Product Name: Mineral Minus (SPA)**

MSDS No.: 039940

**XII. Ecological Information:**

NDA

**XIII. Disposal Considerations:**

SOLIDS MUST BE DISPOSED OF IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY. RECOVERED LIQUIDS MAY BE REPROCESSED OR INCINERATED. INCINERATION MUST BE HANDLED IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY. DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. LOCAL REGULATIONS MAY BE MORE STRINGENT THAN FEDERAL OR STATE. AVOID DISCHARGE TO SEWERS OR WATERWAYS.

**XIV. Transport Information:**

**XV. Regulatory Information:**

NDA

**XVI. Other Information:**

NI

SAFETY SHOWER, EYE WASH FOUNTAIN, AND WASHING FACILITIES SHOULD BE READILY AVAILABLE. IN CASE OF EMERGENCY WHEN DUSTING, MISTING, OR SPLASHING MAY OCCUR, WEAR RESPIRATORY PROTECTION, EYE PROTECTION, GLOVES, HELMET, BOOTS, AND COMPLETE PROTECTIVE BODY COVERING.