

SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements of the Global Harmonizing System.
THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)
IMPORTANT: Read this SDS before handling & disposing of this product.
Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: CFS ENZYME POWDER PRESPRAY D231 (RTU 1 TO 32)
PRODUCT PURPOSE: CARPET PRE-SPRAY
COMPANY IDENTITY: HMS Manufacturing
COMPANY ADDRESS: 3025 Concordia Street
COMPANY CITY: Cincinnati, OH 45206
COMPANY PHONE: 1-513-751-4100
EMERGENCY PHONES: INFOTRAC: 1-800-535-5053 (USA)

SECTION 2. HAZARDS IDENTIFICATION

CAUTION

HAZARD STATEMENTS:

H100s = General, H200s = Physical, H300s = Health, H400s = Environmental

H315 Causes skin irritation.

H320 Causes eye irritation.

H332 Harmful if inhaled.

PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P262 Do not get in eyes, on skin, or on clothing.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| MATERIAL | CAS# | EINECS# | WT % |
|-------------------------|-----------|---------|--------------|
| Sodium Tripolyphosphate | 7758-29-4 | - | Trade Secret |

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

SECTION 4. FIRST AID MEASURES

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & CHRONIC:

See Section 11 for Symptoms/Effects (acute & chronic).

EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.

Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

SWALLOWING:

Rinse mouth. GET MEDICAL ATTENTION IMMEDIATELY. Do NOT give liquids to an unconscious or convulsing person.

SECTION 5. FIRE FIGHTING MEASURES

COMPANY IDENTITY: HMS Manufacturing

PRODUCT IDENTITY: CFS ENZYME POWDER PRESPRAY (RTU 1 TO 32)

FIRE & EXPLOSION PREVENTIVE MEASURES:**SUITABLE (& UNSUITABLE) EXTINGUISHING MEDIA:**

Use dry powder. . use appropriate extinguishing media.

SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS:

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.
Do not enter confined fire-space without full bunker gear.
(Helmet with face shield, bunker coats, gloves & rubber boots).

SPECIFIC HAZARDS OF CHEMICAL & HAZARDOUS COMBUSTION PRODUCTS:

Noncombustible.

Closed containers may explode if exposed to extreme heat.
Applying to hot surfaces requires special precautions.

SECTION 6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES:**

Keep unprotected personnel away.
Wear appropriate personal protective equipment given in Section 8.

ENVIRONMENTAL PRECAUTIONS:

Keep from entering storm sewers and ditches which lead to waterways.

METHODS & MATERIAL FOR CONTAINMENT & CLEAN-UP:

Stop spill at source. Dike and contain.
Collect leaking & spilled liquid in sealable containers as far as possible.

SECTION 7. HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING:**

Use only with adequate ventilation.
Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Keep from freezing. Do not store above 49 C/120 F.
Keep container tightly closed & upright when not in use to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**EXPOSURE LIMITS:**

| MATERIAL | CAS# | EINECS# | TWA (OSHA) | TLV (ACGIH) |
|-------------------------|-----------|---------|------------|-------------|
| Sodium Tripolyphosphate | 7758-29-4 | - | None Known | None Known |

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

APPROPRIATE ENGINEERING CONTROLS:**RESPIRATORY EXPOSURE CONTROLS**

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION

| | | | |
|----------------|-----------|-----------------------|------------|
| LOCAL EXHAUST: | Necessary | MECHANICAL (GENERAL): | Acceptable |
| SPECIAL: | None | OTHER: | None |

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:**PERSONAL PROTECTIONS:**

Wear OSHA Standard goggles and gloves as a standard practice.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES**APPEARANCE:**

Clear Light Green Liquid

ODOR:

Orange

ODOR THRESHOLD:

Not Available

pH (Neutrality):

9.8 to 10.0

MELTING POINT/FREEZING POINT:

Not Available

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES (CONTINUED)

COMPANY IDENTITY: HMS Manufacturing

PRODUCT IDENTITY: CFS ENZYME POWDER PRESPRAY (RTU 1 TO 32)

| | |
|--|-------------------|
| BOILING RANGE (IBP,50%,Dry Point): | > 100 C / > 212 F |
| FLASH POINT (TEST METHOD): | Not Applicable |
| EVAPORATION RATE (n-Butyl Acetate=1): | Not Applicable |
| FLAMMABILITY CLASSIFICATION: | Non-Combustible |
| LOWER FLAMMABLE LIMIT IN AIR (% by vol): | Not Applicable |
| UPPER FLAMMABLE LIMIT IN AIR (% by vol): | Not Available |
| VAPOR PRESSURE (mm of Hg)@20 C | 17.5 |
| VAPOR DENSITY (air=1): | 0.670 |
| GRAVITY @ 68/68 F / 20/20 C: | |
| DENSITY: | 1.004 |
| SPECIFIC GRAVITY (Water=1): | 1.005 |
| POUNDS/GALLON: | 8.375 |
| WATER SOLUBILITY: | Complete |
| PARTITION COEFFICIENT (n-Octane/Water): | Not Available |
| AUTO IGNITION TEMPERATURE: | Not Applicable |
| DECOMPOSITION TEMPERATURE: | Not Available |
| VOCs (>0.044 Lbs/Sq In) : | Not Available |
| TOTAL VOC'S (TVOC)*: | 0.002 Lbs/Gal |
| NONEXEMPT VOC'S (CVOC)*: | 0.000 Lbs/Gal |
| HAZARDOUS AIR POLLUTANTS (HAPS): | 0.0 Wt% |
| NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) | Not Available |
| VISCOSITY @ 20 C (ASTM D445): | Not Available |

* Using CARB (California Air Resources Board Rules).

SECTION 10. STABILITY & REACTIVITY

REACTIVITY & CHEMICAL STABILITY:
Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:
Isolate from extreme heat.

INCOMPATIBLE MATERIALS:
Isolate from strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:
None.

HAZARDOUS POLYMERIZATION:
Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION**ACUTE HAZARDS**

EYE & SKIN CONTACT:
Primary irritation to skin, defatting, dermatitis.
Primary irritation to eyes, redness, tearing, blurred vision.
Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:
Anesthetic. Irritates respiratory tract. Acute overexposure
can cause serious nervous system depression. Vapor harmful.

SWALLOWING:
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
Pre-existing disorders of any target organs mentioned in this SDS can be
aggravated by over-exposure by routes of entry to components of this product.
Persons with these disorders should avoid use of this product.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:
This product has no carcinogens listed by IARC, NTP, NIOSH,
OSHA or ACGIH, as of this date, greater or equal to 0.1%.

TARGET ORGANS: May cause damage to target organs, based on animal data.

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

COMPANY IDENTITY: HMS Manufacturing

PRODUCT IDENTITY: CFS ENZYME POWDER PRESPRAY (RTU 1 TO 32)

IRRITANCY: Irritating to contaminated tissue.

SENSITIZATION: No component is known as a sensitizer.

MUTAGENICITY: No known reports of mutagenic effects in humans.

EMBRYOTOXICITY: No known reports of embryotoxic effects in humans.

TERATOGENICITY: No known reports of teratogenic effects in humans.

REPRODUCTIVE TOXICITY: No known reports of reproductive effects in humans.

A MUTAGEN is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate across generational lines. An EMBRYOTOXIN is a chemical which causes damage to a developing embryo (such as: within the first 8 weeks of pregnancy in humans), but the damage does not propagate across generational lines. A TERATOGEN is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A REPRODUCTIVE TOXIN is any substance which interferes in any way with the reproductive process.

MAMMALIAN TOXICITY INFORMATION

No mammalian information is available on this product.

SECTION 12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.

EFFECT OF MATERIAL ON AQUATIC LIFE:

No aquatic environmental information is available on this product.

MOBILITY IN SOIL

This material is a mobile liquid.

DEGRADABILITY

This product is completely biodegradable.

ACCUMULATION

Bioaccumulation of this product has not been determined.

GREEN INGREDIENTS

>98.2% of ingredients are approved or on an approved list of at least one third party green certification organization in ready to use dilution of 1 to 32.

SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.

ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES.

SECTION 14. TRANSPORT INFORMATION

SECONDARY CONTAINERS SHOULD BE MARKED WITH APPROPRIATE OSHA LABELING.

SECTION 15. REGULATORY INFORMATION

EPA REGULATION:

SARA SECTION 311/312 HAZARDS: None Known

All components of this product are on the TSCA list.
This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

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SECTION 15. REGULATORY INFORMATION (CONTINUED)**STATE REGULATIONS:**

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65):

This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

INTERNATIONAL REGULATIONS

The identified components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

D2B: Irritating to skin / eyes.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all information required by the CPR.

SECTION 16. OTHER INFORMATION**HAZARD RATINGS:**

HEALTH (NFPA): 1, HEALTH (HMIS): 1, FLAMMABILITY: 0, PHYSICAL HAZARD: 0
(Personal Protection Rating to be supplied by user based on use conditions.)

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

SDS DATE: 06/01/2015

NOTICE

The manufacturer disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.