MATERIAL SAFETY DATA SHEET

FOR CHEMICAL EMERGENCY Spill, Leak, Fire, Exposure or Accident CALL CHEMTREC DAY OR NIGHT 800-424-9300

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EMBRACE
24-hr. Emergency #: (800) 424-9300
US DOT Hazardous Materials Registration No.: 026504-001-008MO
Commercial & Government Entity (CAGE) Code: 0YCK6

CHEMICAL NAMES & SYNONYMS:
N/A

FORMULA: Proprietary

CHEMICAL FAMILY:

SUPPLIER'S NAME: Fabriclean Supply of Kansas, LC
SUPPLIER'S ADDRESS: 14400 W. 97th Terrace
SUPPLIER'S CITY, STATE, ZIP: Lenexa, KS 66215
SUPPLIER'S TELEPHONE: (800) 832-0096

SECTION 2 - INGREDIENTS

INGREDIENTS PERCENT ADOPTED VALUES

Sodium phosphate, tribasic CAS # 7758-29-4 N/E - Treat as "Nuisance Particulates"
Particulates Not Otherwise Classified.
ACGIH TLVs: TWA 10 mg/m3.
OSHA PELs: TWA 15 mg/m3 total dust. 5 mg/m3 - Respirable fraction. See Section 15 for Regulatory Information.

Sodium Carbonate CAS # 497-19-8 N/E - Treat as "Nuisance Particulates"
See above listing.

Triacylglycerol lipase CAS # 9001-62-1 N/E - See Section 11 for Toxicity Info.

Protease CAS # 9014-01-1 Calculated TLV for component:
0.00395 mg/m3 using the following quotation:
(0.00006)(A)/DA = .00006 = ACGIH TLV in mg/m3.
A = Activity of pure crystalline enzyme, 395 KNPU/g.
DA = Declared activity of product (6.0 KNPU/g).

(Note: The exact composition of this product, with respect to the percentages of its' reported ingredients and the presence of its' non-regulated ingredients [not reported], is proprietary information and is being withheld. In the event of a medical emergency, total disclosure will be made to the proper authorities.)

SECTION 3 - HEALTH HAZARDS IDENTIFICATION

Primary Routes of Entry: Eye/skin contact. Inhalation. Ingestion.

EFFECTS OF OVEREXPOSURE: Extremely irritating to eyes. Continuous contact with skin may cause irritation. May cause sensitization by inhalation in hypersensitive individuals. Avoid inappropriate handling which may result in aerosol/dust generation. If inhaled, remove from contaminated area to fresh air. Inhalation in susceptible persons may provoke asthma or hay fever. Report situation. Seek medical attention if allergic response exhibited. Ingestion causes irritation to mouth and throat. Ingestion may cause allergic response as with inhalation.

OSHA, IARC, OR NTP CARCINOGEN INFORMATION: No component known to be carcinogenic.

SECTION 4 - FIRST AID MEASURES

EYES: Object is to flush material out of eyes immediately, then seek medical attention. Immediately flush with plenty of water for at least 15 minutes while holding eyelids open to ensure flushing of the entire eye surface. Get medical attention.

SKIN: Immediately wash contaminated areas with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear, which cannot be decontaminated. Seek medical attention if symptoms develop or persist.

INHALATION: Remove to fresh air; if breathing is difficult, have trained personnel administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. Get immediate medical attention. (Note: Coughing, sneezing or other symptoms of upper respiratory irritation may serve as a warning of exposure to high airborne concentrations.)

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INGESTION: DO NOT INDUCE VOMITING! Rinse mouth with water; give large quantities of water or milk to drink. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Give more liquids. Do not give anything by mouth to an unconscious or drowsy person. Get immediate medical attention. (Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician.)

SUPPLEMENTAL HEALTH INFORMATION: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

SECTION 5 - FIRE & EXPLOSION HAZARDS / FIRE FIGHTING MEASURES

Flash Point: Non-flammable

Flammable Limits: N/A

Extinguishing Media: As appropriate for surrounding fire.

Special Fire Fighting Procedures: This product is non-flammable. However, hazardous decomposition and combustion products may be formed in a fire situation. Cool exposed containers with water spray to prevent overheating.

Unusual Fire and Explosion Hazards: Respiratory and eye protection are required for all firefighting personnel. Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Spills should be contained and scooped up and placed in approved containers for disposal. Neutralize residue with dilute acid, flush spill area with water followed by liberal covering of sodium bicarbonate. All clean-up material should be removed and await proper treatment or disposal. Spills on areas other than pavement, e.g., dirt or sand, may be handled by removing the affected soils and placing in approved containers. Persons performing clean-up work should wear adequate personal protective equipment and clothing. Spills or releases should be reported if required, to the appropriate agencies. Dispose of wash water and spill by-products according to all Federal, State and local regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions to be taken in handling and storing: Do not get into eyes, on skin or clothing. Avoid breathing dust, mists, or spray. Do not take internally. Use with adequate ventilation and employ respiratory protection when exposure to dust, mist or spray is possible. When handling, wear chemical splash goggles, face shield, rubber gloves and protective clothing. Keep container closed.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Where open handling cannot be avoided, respiratory passages should be covered for protection.

Ventilation Required: This product may cause sensitization by inhalation in hypersensitive individuals. Therefore avoid handling which may result in dust generation. Provide for good ventilation of the work area, when handling this product.


Additional Protective Measures: Safety shower, eye bath and washing facilities should be available and easily accessible.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, granular

State: Solid

Odor: No distinct odor.

Solubility in Water: Complete

pH: (1 % solution) 10.0 - 10.5 typical

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

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**Incompatibility:** Oxides of phosphorus

**Hazardous Decomposition:** UNK

**Hazardous Polymerization:** Will not occur.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Toxicological Information:** Sodium phosphate, tribasic - Eyes - mild irritant (rabbit) FMC Study 186-917, dated 1986. Skin - non-irritating FMC Study 188-1047, dated 1988. Inhalation - no significant hazard expected. LD(50) > 0.39 mg/L (rat, 4 hour). FMC Study 188-1011. Ingestion - no significant hazard. LD(50) (rat) 6.5 g/kg. RTECS, 1980.

Sodium carbonate - Eyes - severe irritation Toxicology 23.281-291, 1982. Ingestion - LD(50) (rat) 2.8 gm/kg. Tetrasodium pyrophosphate: Skin: LD50>2000 mg/kg (rabbit). Ingestion: LD(50) = 4000 mg/kg (rat).

Triacylglycerol lipase - Oral rat LD-50> 2g/kg (rat).

**Chemical Fate Information:** Sodium carbonate - ingestion of large amounts may cause vomiting, diarrhea, circulatory collapse and death.

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**SECTION 12 - ECOLOGICAL INFORMATION**

Inorganic phosphates in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

Appropriate disposal will depend on the nature of each waste material and should be performed by competent and properly permitted contractors. Ensure that all responsible Federal, State, and local agencies received proper notification of spill and disposal of waste, if required.

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**SECTION 14 - TRANSPORT INFORMATION**

**Proper Shipping Name:** Cleaning compound

**Hazard Class:** N/A

**UN#:** N/A

**Packing Group:** N/A

**Sticker Required:** N/A

**Emergency Response Guidesheet:** N/A

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**SECTION 15 - REGULATORY INFORMATION**

(Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer’s responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.)

(A simple explanation of each act [legislation] is included in this section. Ingredients listed in these sections means they are governed by that particular act.)

**RCRA - RESOURCE CONSERVATION AND RECOVERY ACT (HAZARDOUS WASTE):** The act that mandated the development of hazardous waste regulations. These regulations can be found in 40 CFR 260-281.

Appropriate disposal will depend on the nature of each waste material and should be performed by competent and properly permitted contractors. Ensure that all responsible Federal, State, and local agencies received proper notification of spill and disposal of waste, if required.

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REPORTABLE QUANTITIES - CERCLA (ACCIDENTAL RELEASE): The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) identifies a list of substances that have an adverse effect if released to the environment. The Act designates the reportable quantity (RQ) for each of these substances, and the notification requirements for releases or spills. When a specified amount of a chemical is released or spilled, the National Response Center must be notified. This specified amount is the "reportable quantity." The reportable quantity for each chemical is based on the severity of environmental hazard it presents.

Sodium phosphate tribasic CAS # 7758-29-4 - 5,000 lbs.

THRESHOLD PLANNING QUANTITIES (SARA - COMMUNITY RIGHT TO KNOW) EXTREMELY HAZARDOUS SUBSTANCE LIST: The Extremely Hazardous Substance (EHS) list and planning quantities trigger certain reporting requirements to emergency planning agencies. If your facility has a listed hazardous substance in amounts equal to or greater than the quantities shown on the index, the regulations of 40 CFR 355 and 370 apply to you.

No ingredients listed.

SARA TITLE III, SECTION 313: EPA has developed a list of over 320 regulated chemicals and 22 chemical categories. An entry in this section, indicates that a given chemical appears on this list. The entry will consist of a date, which identifies the effective date for reporting; and a "de minimis" amount. This amount, 1% or 0.1%, indicates the minimum amount of a chemical that must be present in a mixture to trigger reporting.

No ingredients listed.

RISK MANAGEMENT PROGRAM - EPA: On January 31, 1994, a new EPA rule was finalized. It was required under section 112(r) of the Clean Air Act. It is aimed at preventing accidental chemical releases. This first rule presented a list, composed of three categories: 77 toxic substances, 63 flammable substances, and explosive substances with a mass explosion hazard as listed by DOT. The complete regulation can be found in 40 CFR Part 68 - Chemical Accident Prevention Provisions.

No ingredients listed.


Sodium carbonate,

DOT: The Department of Transportation (DOT) regulates those substances that present a potential hazard during transportation. There may be labeling, special packaging, and/or placarding required.

sodium phosphate, tribasic CAS # 7601-54-9

Process Safety Management - OSHA: OSHA established a regulation (1910.119) to monitor and control safety at certain types of industrial facilities. Compliance is triggered by specified quantities of specific chemicals.

No ingredients listed.

Proposition 65 - California: Proposition 65 refers to an initiative passed by the California voters in the November 1986 elections. It is the Safe Drinking Water and Toxic Enforcement Act of 1986. One of the components is the listing of chemicals known to cause cancer or reproductive toxicity. Twelve months after a chemical is listed, a person in the course of doing business must warn another person who may consume, come into contact with, or otherwise be exposed to that chemical.

No ingredients listed.

The New Clean Air Act - Hazardous Air Pollutants: This rule regulates the emissions of 112 of the organic chemicals identified in the Cats list of 189 hazardous air pollutants.

No ingredients listed.

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SECTION 16 - OTHER INFORMATION
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AS A GENERAL RULE, PREVENT AND PROTECT THIS PRODUCT FROM UNAUTHORIZED USE FOR INDUSTRIAL USE ONLY !!!!!!!

END OF REPORT

MSDS/EMBRACE, PAGE 5, SECTION 16 CONT.

NAME: Robert C. Jaudon DATE ISSUED: 5/20/02

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In accord with the philosophy established by the Occupational Safety and Health Administration's Hazard Communication Final Rule, 1985, this Material Safety Data Sheet has been designed to emphasize the hazardous portions (ingredient[s]) utilized in the total formulation. As a result, the information herein stresses the most hazardous component(s) only. By this approach, we feel better knowledge and awareness should substantially contribute to reduce exposure and injury to workers involved with the use of this product. The information supplied in this document is presented for exactly this purpose. As required by law, this data should be thoroughly read and made available to anyone who may be responsible for handling this material. Actual usage rates and further dilution will, in most cases, greatly reduce, if not eliminate, the potential for worker injury. Any and all chemical products should be handled with extreme care and only by authorized and informed personnel. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this MSDS should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

The information and recommendations provided in this Material Safety Data Sheet have been obtained from data we believe to be reliable. We provide no warranties, expressed or implied, or accept no responsibility for loss associated with the use or handling of this product. This information is offered for your review and consideration. Efforts should be extended to determine the applicability of this product for your specific intended use. We know of no medical condition, other than those noted in this Material Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

REASON FOR REVISION: Section 1 - Haz. Mat. Reg. number