MATERIAL SAFETY DATA SHEET

PARTI

What is the material and what do I need to know in an emergency?

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED):

CHEMICAL NAME/CLASS:

U.N. NUMBER:

U.N. DANGEROUS GOODS CLASS/SUBSIDIARY RISK:

PRODUCT USE:

SUPPLIER/MANUFACTURER'S NAME:

ADDRESS:

EMERGENCY PHONE: BUSINESS PHONE:

DATE OF PREPARATION:

E-2000

Mixture

Not applicable

Not applicable

Coating for the prevention of corrosion

DeNOVUS LLC

200 N. Industrial Park Drive Excelsior Springs, MO 64024

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1-23-07

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	EINECS#	Proportion	EXPOSURE LIMITS IN AIR					
			(w/v%)	ACGIH-TLV		OSHA-PEL			
				TWA mg/m³	STEL mg/m	TWA mg/m³	STEL mg/m³	IDLH mg/m³	OTHER mg/m³

Contains no hazardous materials found in EPA's "Title III List of Lists"

- EPCRA Section 302 Extremely Hazardous Substances
- CERCLA Hazardous Substances
- EPCRA Section 313 Toxic Chemicals
- CAA 112(r) Regulated Chemicals For Accidental Release Prevention

The specific chemical identity is being withheld as a trade secret

Other constituents. Each of the other constituents are present in less than 1 percent concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens).

Balance

The remaining components do not contribute any significant additional hazards. All pertinent 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 equivalent Standards.

NE = Not Established.

C = Ceiling Limit

See Section 16 for Definitions of Terms Used

NOTE: Information on this product is being claimed as proprietary.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This is a tacky, off-white cream with a slight, paint-like odor. **Health Hazards:** This product may irritate eyes, skin, and other contaminated tissues. **Flammability Hazards:** If involved in a fire, this product will decompose to produce toxic gases (e.g., oxides of carbon, nitrogen, lithium, and calcium, hydrogen chloride). **Reactivity Hazards:** Negligible. **Environmental Hazards:** Negligible. **Emergency Recommendations:** Emergency responders must wear proper personal protective equipment for the releases to which they are responding.

3. HAZARD IDENTIFICATION (Continued)

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant route of occupational overexposure is contact with skin and eyes. The symptoms of overexposure to this product, via route of exposure, are as follows:

INHALATION: Inhalation of fumes generated by heating this product may slightly irritate the nose, throat, and other tissues of the respiratory system. Symptoms are generally alleviated upon breathing fresh air.

<u>CONTACT WITH SKIN or EYES</u>: Skin or eye contact with this product may be slightly irritating. Symptoms of eye contact may include redness, pain, and watering. Symptoms of skin contact may include redness and itching. Prolonged or repeated skin contact may cause dermatitis (dry, red skin).

SKIN ABSORPTION: The components of this product are not known to be absorbed through intact skin.

<u>INGESTION</u>: Ingestion is not anticipated to be a significant route of occupational overexposure for this product. If this product is swallowed (i.e., through poor hygiene practices), it may cause nausea, vomiting, and diarrhea.

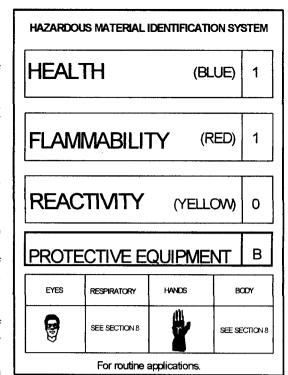
<u>INJECTION</u>: Though not anticipated to be a significant route of overexposure for this product, injection (via punctures or lacerations by contaminated objects) may cause redness at the site of injection.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms.

ACUTE: This material may slightly irritate the eyes, skin, and other contaminated tissues.

CHRONIC: Prolonged or repeated skin contact may cause dermatitis (dry, red skin)

TARGET ORGANS: Acute: Eyes, skin. Chronic: Skin.



See Section 16 for Definition of Ratings

PART II

What should I do if a hazardous situation occurs?

4. FIRST-AID MEASURES

Victim must be taken for medical attention, especially if adverse effects continue after initial treatment. Rescuers should be taken for medical attention if necessary. Take a copy of label and MSDS to health professional with victim.

<u>SKIN EXPOSURE</u>: If this product contaminates the skin, <u>immediately</u> begin decontamination with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The minimum recommended flushing time is 15 minutes. Victim must seek medical attention if an adverse reaction occurs.

EYE EXPOSURE: If this product contaminates the eyes, open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. If necessary, consult an ophthalmologist.

<u>INHALATION</u>: If mists or sprays of this product are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers. Victim must seek medical attention if an adverse reaction occurs.

INGESTION: Ingestion is not anticipated to be a significant route of overexposure. If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, DO NOT induce vomiting, unless directed by medical personnel. Never induce vomiting or give diluents (milk or water) to someone who is <u>unconscious</u>, having convulsions, or <u>unable to swallow</u>. Victim must seek medical attention. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing dermatitis, other skin conditions, and respiratory conditions may be aggravated by acute or chronic overexposures to this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT (COC): > 149°C (300°F)

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): Not applicable.

Upper (UEL): Not applicable.

FIRE EXTINGUISHING MATERIALS:

Water Spray: YES Foam: YES

Carbon Dioxide: YES Dry Chemical: YES

Halon: YES

Other: Any "ABC" Class

<u>UNUSUAL FIRE AND EXPLOSION HAZARDS</u>: This product must be substantially preheated before ignition can occur. When involved in a fire, the products of thermal decomposition may include irritating fumes and toxic gases (e.g., oxides of carbon, nitrogen, lithium, and calcium, hydrogen chloride).

Explosion Sensitivity to Mechanical Impact: Not applicable. Explosion Sensitivity to Static Discharge: Not applicable.

<u>SPECIAL FIRE-FIGHTING PROCEDURES</u>: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move fire-exposed containers if it can be done without risk to firefighters. If possible, firefighters should control runoff water to prevent environmental contamination. Rinse contaminated equipment with soapy water before returning such equipment to service.

HEALTH 1 0 REACTIVITY

NFPA RATING

See Section 16 for Definition of Ratings

6. ACCIDENTAL RELEASE MEASURES

RELEASE RESPONSE: Small releases should be scraped up and placed in a closed container. Responders should wear gloves, goggles, and suitable body protection during the clean-up of small spills. Larger, uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used.

In case of a large spill, clear the affected area, protect people, and respond with trained personnel. Identify all sources of ignition before clean-up procedures begin. Minimum Personal Protective Equipment should be Level C: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, hard hat, and Air-Purifying respirator with high efficiency particulate filter). Self-Contained Breathing Apparatus must be selected if releases occur in confined or poorly ventilated areas or if the level of oxygen is below 19.5%. Scrape up spilled material. Rinse area with soap and water solution and follow with a water rinse.

Close off sewers and take other measures to protect human health and the environment as necessary. Decontaminate the area thoroughly. Dispose of in accordance with applicable U.S. Federal, State, or local procedures.

PART III How can I prevent hazardous situations from occurring?

7. HANDLING and STORAGE

WORK AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing fumes, mists, or sprays generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: All employees who handle this material should be trained to handle it safely. Open containers slowly on a stable surface. Containers of this product must be properly labeled. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight or sources of intense heat. Store away from incompatible materials (see Section 10, Stability and Reactivity). Material should be stored in secondary containers or in a diked area, as appropriate. Keep container tightly closed when not in use. Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely, if necessary. Collect all rinsates and dispose of according to applicable U.S. Federal, State, or local procedures.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

<u>VENTILATION AND ENGINEERING CONTROLS</u>: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided in Section 2 (Composition and Information on Ingredients) if applicable. Ensure eyewash/safety shower stations are available near areas where this product is used.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

RESPIRATORY PROTECTION: Respiratory protection is not generally needed during routine use of this product. For operations in which fumes, mists, or sprays of this product will be generated, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent U.S. State standards. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998).

EYE PROTECTION: Splash goggles or safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133.

HAND PROTECTION: Wear latex or rubber gloves for routine industrial use. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this MSDS.

BODY PROTECTION: Use body protection appropriate for task (e.g., coveralls, Tvvek® suit).

9. PHYSICAL and CHEMICAL PROPERTIES

EVAPORATION RATE (n-BuAc = 1): Not established.

MELTING/FREEZING POINT: Not established.

BOILING POINT: Not established.

pH: Not applicable.

RELATIVE VAPOR DENSITY (air = 1): Not established.

SPECIFIC GRAVITY (water = 1): 0.90 - 1.05

SOLUBILITY IN WATER: Insoluble.

VAPOR PRESSURE, mm Hg @ 20°C: Not established.

ODOR THRESHOLD: Not established.

APPEARANCE AND COLOR: This is a tacky, off-white cream with a slight, paint-like odor.

HOW TO DETECT THIS SUBSTANCE (warning properties): The appearance of this product may act as a distinguishing

characteristic.

10. STABILITY and REACTIVITY

STABILITY: Stable.

DECOMPOSITION PRODUCTS: If exposed to extremely high temperatures, the products of thermal decomposition may include irritating fumes and toxic gases (e.g., oxides of carbon, nitrogen, lithium, and calcium, hydrogen chloride).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers, strong acids, amines,

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Exposure to or contact with extreme temperatures and incompatible chemicals.

PART IV Is there any other useful information about this material?

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: Currently, there are no toxicological data available for this component.

SUSPECTED CANCER AGENT: The components of this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, and CAL/OSHA and therefore are neither considered to be nor suspected to be cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: This product may be slightly irritating to eyes, skins, and other contaminated tissues.

SENSITIZATION TO THE PRODUCT: The components of this product are not known to be sensitizers with prolonged or repeated use.

REPRODUCTIVE TOXICITY INFORMATION: Currently, no data is available.

ACGIH BIOLOGICAL EXPOSURE INDICES: Currently, no data is available.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: The components of this product will slowly degrade in the environment and form a variety of organic and inorganic materials.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No specific information is currently available on the effect of this product on plants or animals in the environment. This product may be harmful to contaminated plant and animal life (especially in large quantities).

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product may be harmful to aquatic plant and animal life in contaminated bodies of water (especially in large quantities).

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations.

U.S. EPA WASTE NUMBER: Not applicable to wastes consisting only of this product.

14. TRANSPORTATION INFORMATION

THIS MATERIAL IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:
HAZARD CLASS NUMBER and DESCRIPTION:
UN IDENTIFICATION NUMBER:
PACKING GROUP:
DOT LABEL(S) REQUIRED:
Not Applicable
Not Applicable

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER, 1996: Not applicable

MARINE POLLUTANT: Currently, no data is available.

IATA DESIGNATION: This material is not considered as dangerous goods by the International Air Transport Association.

15. REGULATORY INFORMATION

ADDITIONAL UNITED STATES REGULATIONS:

- <u>U.S. SARA REPORTING REQUIREMENTS</u>: The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.
- <u>U.S. SARA THRESHOLD PLANNING QUANTITY</u>: There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.
- U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.
- <u>U.S. TSCA STATUS</u>: The components of this product listed by CAS # in Section 2 (Composition and Information on Ingredients) are on the TSCA Inventory.

OTHER U.S. FEDERAL REGULATIONS: Not applicable.

U.S. STATE REGULATORY INFORMATION: not applicable.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): No component of this product listed in Section 2 (Composition and Information on Ingredients) is on the California Proposition 65 lists.

U.S. ANSI STANDARD LABELING (Z129.1): WARNING! MAY CAUSE EYE IRRITATION. Avoid prolonged or repeated contact with skin. Avoid contact with eyes or clothing. Wash thoroughly after handling. Avoid breathing mists or sprays. Work in well-ventilated area. Do not taste or swallow. Wear gloves, goggles, and appropriate body protection. FIRST-AID: In case of skin contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. In case of eye contact, flush with plenty of water for 15 minutes. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, do not induce vomiting. Get medical attention if adverse effects develop. IN CASE OF FIRE: Use water fog, dry chemical, CO₂, or "alcohol" foam. IN CASE OF SPILL: Scrape up, place in a suitable container, and seal. Consult Material Safety Data Sheet for additional information.

16. OTHER INFORMATION

PREPARED BY:

DeNOVUS, LLC 200 N. Industrial Park Drive Excelsior Springs, MO 64024 816-630-3399

DATE:

1-23-07

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DEFINITIONS OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these which are commonly used include the following:

CAS #: This is the Chemical Abstract Service Number which uniquely identifies each constituent. It is used for computer-related searching.

EXPOSURE LIMITS IN AIR:

ACGIH - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits.

TLV - Threshold Limit Value - an airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average (TWA), the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level (C). Skin absorption effects must also be considered.

OSHA - U.S. Occupational Safety and Health Administration.

PEL - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (<u>Federal Register</u>: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL which was vacated by Court Order.

IDLH - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury. The DFG - MAK is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. NIOSH is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (OSHA). NIOSH issues exposure guidelines called Recommended Exposure Levels (RELs). When no exposure guidelines are established, an entry of NE is made for reference.

HAZARD RATINGS:

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: This rating system was developed by the National Paint and Coating Association and has been adopted by industry to identify the degree of chemical hazards. Health Hazard: 0 (minimal acute or chronic exposure hazard); 1 (slight acute or chronic exposure hazard): 2 (moderate acute or significant chronic exposure hazard); 3 (severe acute exposure hazard; onetime overexposure can result in permanent injury and may be fatal), 4 (extreme acute exposure hazard; onetime overexposure can be fatal). Flammability Hazard: 0 (minimal hazard): 1 (materials that require substantial pre-heating before burning); 2 (combustible liquid or solids; liquids with a flash point of 38-93°C [100-200°F]); 3 (Class IB and IC flammable liquids with flash points below 38°C [100°F]); 4 (Class IA flammable liquids with flash points below 23°C [73°F] and boiling points below 38°C [100°F]. Reactivity Hazard: 0 (normally stable); 1 (material that can become unstable at elevated temperatures or which can react slightly with water); 2 (materials that are unstable but do not detonate or which can react violently with water); 3 (materials that can detonate when initiated or which can react explosively with water); 4 (materials that can detonate at normal temperatures or pressures). PPE Rating B: Hand and eye protection is required for routine chemical use.

NATIONAL FIRE PROTECTION ASSOCIATION: <u>Health Hazard</u>: 0 (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); 1 (materials that on exposure under fire conditions could cause irritation or minor residual injury); 2 (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); 3 (materials that can on short exposure could cause serious temporary or residual injury); 4 (materials that under very short exposure could cause death or major residual injury). Flammability Hazard and Reactivity Hazard: Refer to definitions for "Hazardous Materials Identification System".

FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire Protection Association (NFPA). Flash Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

TOXICOLOGICAL INFORMATION:

Human and Animal Toxicology: Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: LD50 - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; LC50 - Lethal Concentration (gases) which kills 50% of the exposed animals; ppm concentration expressed in parts of material per million parts of air or water; mg/m3 concentration expressed in weight of substance per volume of air; mg/kg quantity of material, by weight, administered to a test subject, based on their body weight in kg. Other measures of toxicity include TDLo, the lowest dose to cause a symptom and TCLo the lowest concentration to cause a symptom, TDo, LDLo, and LDo, or TC, TCo, LCLo, and LCo, the lowest dose (or concentration) to cause lethal or toxic effects. Cancer Information: The sources are: IARC - the international Agency for Research on Cancer; NTP - the National Toxicology Program, RTECS - the Registry of Toxic Effects of Chemical Substances, OSHA and CAL/OSHA. IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. Other Information: BEI -ACGIH Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV. Ecological Information: EC is the effect concentration in water. BCF = Bioconcentration Factor, which is used to determine if a substance will concentrate in lifeforms which consume contaminated plant or animal matter. TLm = median threshold limit: Coefficient of Oil/Water Distribution is represented by log Kow or log Koc and is used to assess a substance's behavior in the environment.

REGULATORY INFORMATION:

U.S. and CANADA: This section explains the impact of various laws and regulations on the material. EPA is the U.S. Environmental Protection Agency. WHMIS is the Canadian Workplace Hazardous Materials Information System. DOT and TC are the U.S. Department of Transportation and the Transport Canada, respectively. Superfund Amendments and Reauthorization Act (SARA); the Canadian Domestic/Non-Domestic Substances List (DSL/NDSL); the U.S. Toxic Substance Control Act (TSCA); Marine Pollutant status according to the DOT; the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund); and various state regulations. This section also includes information on the precautionary warnings which appear on the material's package label.

EUROPEAN and INTERNATIONAL: EC is the European Community (formerly known as the EEC, European Economic Community). EINECS: This the European Inventory of Now-Existing Chemical Substances. AICS is the Australian Inventory of Chemical Substances. MITI is the Japanese Minister of International Trade and Industry. ECL is the Korean Existing Chemicals List. IMO is the International Maritime Organization and IATA is the International Air Transport Association. The ARD is the European Agreement Concerning the International Carriage of Dangerous Goods by Road and the RID are the International Regulations Concerning the Carriage of Dangerous Goods by Rail.