MATERIAL SAFETY DATA SHEET

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Prepared to U.S. DSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, and European Community Standards

PARTI

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

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED):

CONCENTRATE SPARKLE T/5 PIXIE INSTANT LEAF SHINE & CLEANER

Mineral Oil Emulsion CHEMICAL NAME/CLASS:

Not Applicable U.N. NUMBER: Not Applicable

U.N. DANGEROUS GOODS CLASS/SUBSIDIARY RISK; Not Applicable HAZCHEM CODE (AUSTRALIA): Not Applicable

POISONS SCHEDULE NUMBER (AUSTRALIA):

MATERIAL USE: SUPPLIER/MANUFACTURER'S NAME

ADDRESS:

U.S. EMERGENCY PHONE:

TEITELBAUM BROTHERS, Inc.

1940 Lehigh Avenue Glenview, IL 60025

01 (847) 729-3490 (9 a.m.-5 p.m. Eastern U.S. Time)

1/800-624-6883 March 25, 2002

Plant Cleaner

U.S. BUSINESS PHONE: DATE OF PREPARATION:

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL	CAS#	EINECS#	PROPORTI ON((% v/v)	EXPOSURE LIMITS IN AIR					
PARAME				ACGIH-T	LV	OSHA-P	EL	NIOSH	OTHER
				TWA mg/m²	STEL mg/m²	TWA mg/m²	STEL mg/m³	mg/m²	mg/m³
White Mineral OII, USP (Exposure limits are for Oil Mist,	8042-47-5	Unlisted	>80%	5 NIC =0.2 (inhal able fractio n)	10 NIC =0.2 (inhal able fractio n)	5	NE	2,500	NIOSH RELS TWA = 5 STEL =10 NIC=Carcinog en: TLV-A2
Mineral Water and other components each present in less than 1 percent concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens).		Balance	None of the other components contribute significant additional hazards at the concentrations present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupation Safety and Health Admistration Standard (2 CFR 1910.1200), U.S. State equivalent Standards; Canadian Workplace Hazardous Materials Identification System Standards (CPR 4); and the applicable Council Directives of the European Community						

NE = Not Established.NIC = Notice of Intended Change

See Section 16 for Definitions of Terms Used

NOTE (1): All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This material has been classified in accordance with the hazard criteria of the CPR and the MSOS contains all the information required by the CPR.

NOTE (2): All Australian WorkSafe, and European Community required information is included. It is located in appropriate sections based on the ANSI Z400.1-1998 format.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a milky-white, oily, practically odorless liquid. Health Hazards: The product is not expected to irritate contaminated skin, unless contact is prolonged. When used by immersing plants to be cleaned (as a dip), due to its high viscosity, this product should not produce mists or

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sprays. If used as a spray, inhalable mists or sprays may be created and cause irritation of the respiratory system if breathed. Repeated inhalation of mists or sprays cause adverse lung conditions. Ingestion of large quantity of the product may be harmful. Flammability Hazards: This product must be heated to an extremely high temperature, causing evaporation of water, before ignition could occur. Reactivity Hazards: This product is not reactive. Environmental Hazards: If large amounts of this product are released into the environment adverse effects may occur. Emergency Recommendations: Emergency responders must wear the personal protective equipment suitable for the situation to which they are responding.

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

INHALATION: Due to its high viscosity, when used as a dip, this product should not produce mists or sprays. If used as a spray, inhalation may cause coughing and irritate the nose, throat, and other tissues of the respiratory

system. Repeated inhalation exposure may result in adverse lung conditions.

CONTACT WITH SKIN or EYES: Minor skin contact is not expected to cause adverse symptoms. Repeated or prolonged skin overexposure may cause irritation or dermatitis (dry, red skin). Eye contact with this product can mildly to moderately irritate the eye and cause pain, tearing, and redness. No permanent damage to the eye is expected to occur; discomfort should be relieved upon rinsing of the contaminated eye(s).

SKIN ABSORPTION: No component of this product is known to be absorbed via intact skin.

INGESTION: Though not anticipated to be a significant route of occupational exposure, ingestion of large quantities of this product may cause headache, nausea, vomiting, and diarrhea. A hazard of aspiration into the lungs may occur after ingestion. Aspiration of liquids into the lungs will cause immediate pain and coughing and can result in the development of pneumonia and pulmonary edema.

INJECTION: Accidental injection of this liquid (as may occur by a puncture with a contaminated object) may

cause local pain, irritation, and redness.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Torms. In the event of overexposure, the following symptoms may be observed:

See Section 16 for Definition of Ratings

ACUTE: Acute exposure to low concentration levels of this product via skin contact, eye contact and inhalation should not cause significant adverse health effects. Due to its high viscosity, under normal circumstances of use, this product should not produce mists or sprays. However, if use results in mists or sprays of product, inhalation may cause coughing and irritation of the respiratory system.. Ingestion of large amounts may cause headache, nausea, and diarrhea. Aspiration into the lungs after ingestion can result in life-threatening pulmonary edema or chemical pneumonia.

CHRONIC: Chronic skin exposure to this product may cause irritation or dermatitis in susceptible individuals. There is recent evidence of carcinogenic potential, by repeated inhalation for the White Mineral Oil, USP component. While this is not an expected route of exposure to this product due to its high viscosity, this information is being provided to ensure all possible health information is provided. Refer to Section 11 (Toxicology

Information) for additional data.

CHRONIC: Skin, respiratory system. ET ORGANS: ACUTE: Skin, respiratory system, eyes.

HUNCHHUNC	US MATERIAL ID			-	
HEAL	TH	(BI	(BLUE)		
FLAM	IMABILIT	Υ σ	RED)	0	
REACTIVITY (YELLOW)					
PROT	ECTIVE EC	UIPME	NT	В	
even	NAME AND ADDRESS OF THE PARTY O	nec.	9307		
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PART II What should I do if a hazardous situation occurs?

4. FIRST-AID MEASURES

Contaminated individuals must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention if necessary. Take a copy of the label and MSDS to health professional with victim.

SKIN EXPOSURE: If this product contaminates the skin, wash skin with running water and soap. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual must seek medical attention if any adverse effect occurs.

EYE EXPOSURE: If vapors, sprays, or mists of this product enter the eyes, open the contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Have the contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. The contaminated individual must seek medical attention if any adverse effect occurs.

INHALATION: If mists or sprays of this product are inhaled, remove the contaminated individual to fresh air. If necessary, remove or cover gross contamination to avoid exposure to rescuers. Seek medical attention if adverse

INGESTION: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. DO NOT INDUCE VOMITING, unless directed by medical personnel. Have victim rinse mouth with water if conscious. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. If vomiting occurs, lean patient forward or place on left side (head-down position if possible) to maintain an open airway and prevent aspiration.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Preexisting skin and respiratory disorders may be aggravated by prolonged overexposures to this product.

RECOMMENDATIONS TO PHYSICIANS: Treatment symptoms and eliminate exposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Not normally flammable.

AUTOIGNITION TEMPERATURE: Not applicable

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): Not applicable. Uoper (UEL): Not applicable.

FIRE EXTINGUISHING MATERIALS:

Water Spray: YES (for cooling)

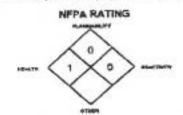
Foam: YES Halon: YES Other: Any "ABC" Class.

UNUSUAL FIRE AND EXPLOSION HAZARDS: When involved in a fire, this material may decompose and produce irritating vapors and toxic gases (e.g., carbon oxides and nitrogen oxides).

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

See Section 16 for Definition of Ratings

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Solf-Contained Breathing Apparatus and full protective equipment. Due to the presence of colorants, the runoff water from these products can discolor contaminated objects. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas. If necessary, rinse fire-response equipment with scapy water before returning to service. Dispose of rinsate appropriately.



6. ACCIDENTAL RELEASE MEASURES

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SPILL AND LEAK RESPONSE: Spill of this product may be slippery; caution should be use when cleaning up spills. For incidental spills (e.g., less than 1 L of liquid from a bottle), wear rubber gloves, splash goggles, and appropriate body protection. Trained personnel following pre-planned procedures should handle non-incidental releases (e.g., 10 L of liquid leaking from a crate of several containers). In the event of a non-incidental spill, clear the area and protect people. The minimum personal protective equipment for response to a non-incidental spill is as follows: rubber gloves, rubber boots, face shield, and Tyvek suit. The minimum level of personal protective equipment for releases in which the level of oxygen is less than 19.5% or is unknown must be Level B: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, hard hat, and Self-Contained Breathing Apparatus. Absorb spilled liquid with polypads or other suitable absorbent materials. Rinse area thoroughly with soapy water after liquid has dried. Decontaminate the area thoroughly. If necessary, discard all stained response equipment or rinse with scapy water before returning such equipment to service. Place all spill residue in an appropriate container and seal. Dispose of in accordance with applicable U.S. Federal, State, or local procedures, or appropriate standards of Canada, Australia, or EC Member States (see Section 13, Disposal Considerations).

How can I prevent hazardous situations from occurring? PART III

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 sprays or mists generated by this product. Use in a well-ventilated location. contaminated clothing immediately. Spills of product may be slippery and present a slip hazard. STORAGE AND HANDLING PRACTICES: All employees who handle this material should be trained to handle it safely. Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged. containers may contain residual liquid or vapors; therefore, empty containers should be handled with care. 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 and appropriate Canadian standards.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided in Section 2 (Composition and Information on Ingredients). Use local exhaust ventilation. Normal office ventilation conforming to the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) Standards is adequate under normal circumstances of use. Persons using this product should consult a qualified Ventilation Engineer and/or Industrial Hygienist if concerns about exposures arise. If necessary, refer to Australian National Code of Practice for the Control of Workplace Hazardous Substances [NOHSC: 2007 (1994)] for further information. As with all products that contain chemicals, ensure proper decontamination equipment (e.g., eyewash/safety shower stations) are available near areas where this product is used as necessary.

INTERNATIONAL OCCUPATIONAL EXPOSURE LIMITS: Currently, there are no international exposure limits for

components of this product in greater than 1% concentration.

RESPIRATORY PROTECTION: None needed under normal circumstances of use. If use of product produces inhalable mists or spray, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, and EC member states, or the Australian Standard 1716-Respiratory Protective Devices and Australian Standard 1715-Selection, Use, and Maintenance of Respiratory Protective Devices. 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 U.S. Federal OSHA's Respiratory Protection Standard (1910.134-1998) or the regulations of various U.S. States, Canada, Australia, or EC Member States. If use leads to excessive mist or spray, it is recommended that the following NIOSH respiratory equipment guideline be followed for Oil Mists, Mineral.

OIL MIST, MINERAL

RESPIRATORY PROTECTION CONCENTRATION

Any Air-Purifying Respirator with a high-efficiency particulate filter, or any Supplied-Air Up to 50 mg/m3:

Respiratory (SAR).

Up to 125 mg/m3: Any SAR operated in a continuous-flow mode, or any Powered, Air-Purifying Respirator

(PAPR) with a high-efficiency particulate filter.

Any Air-Purifying, Full-Facepiece Respirator with a high-efficiency particulate filter, or any Up to 250 mg/m3:

SAR that has a tight-fitting facepiece and is operated in a continuous-flow mode, or any PAPR with a tight-fitting facepiece and a high-efficiency particulate filter, or any Self-Contained Breathing Apparatus (SCBA) with a Full Facepiece, or any SAR with a full

Up to 2500 mg/m3; Any SAR operated in a pressure-demand or other positive-pressure mode.

Emergency or Planned Entry into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full

facepiece and is operated in a pressure-demand or other positive-pressure mode, or any SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary SCBA operated in

pressure-demand or other positive-pressure mode.

Any Air-Purifying, Full-Facepiece Respirator with a high-efficiency particulate filter, or any Escape:

appropriate escape-type, SCBA.

HAND PROTECTION. Wear light-weight latex or similar glove for routine use if prolonged contact is possible. Check gloves for leaks. If necessary, refer to U.S. OSHA 29 CFR 1910.138, Australian Standard 2161-Industrial

Safety Gloves and Mittens and appropriate Standards of the EC and Canada for further information.

EYE PROTECTION: None needed under normal circumstances of use. Splash goggles or safety glasses should be worn during operations in which sprays of liquid may occur. If necessary, refer to U.S. OSHA 29 CFR 1910.133, the European Standard EN166, or the Australian Standard 1337-Eye Protection for Industrial Applications and Australian Standard 1336-Recommended Practices for Eye Protection in the Industrial Environment for further information.

BODY PROTECTION: None needed under normal circumstances of use. Use body protection appropriate for task (e.g., rubber apron when cleaning equipment; Tyvek suit and rubber boots during non-incidental spill response). If necessary, refer to Australian Standard 3765-Clothing for Protection Against Hazardous Chemicals for further information. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

VAPOR DENSITY (air = 1): > 1

SPECIFIC GRAVITY (water = 1): > 1

SOLUBILITY IN WATER: Insoluble.

VAPOR PRESSURE: Not established.

ODOR THRESHOLD: Not applicable

EVAPORATION RATE (n-Buac = 1): > 1 MELTING/FREEZING POINT: Not established.

BOILING POINT: Not established.

pH: Not applicable.

COEFFICIENT OF OILWATER DISTRIBUTION (PARTITION COEFFICIENT): Not established.

APPEARANCE, ODOR AND COLOR: This product consists of a milky-white, colorless, oily, practically odorless liquid.

HOW TO DETECT THIS SUBSTANCE (warning properties): The oily appearance of this product may be a distinguishing characteristic.

10. STABILITY and REACTIVITY

STABILITY: Stable

DECOMPOSITION PRODUCTS: If exposed to extremely high temperatures, this product can decompose to generate carbon oxides and nitrogen oxides.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizer, strong bases, and compounds that are incompatible with water.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Exposure to or contact with extremely high temperatures, incompatible chemicals.

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

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: Specific toxicology data available for components greater than 1% in concentration are as follows.

WHITE MINERAL OIL, U.S.P.:

TDLo (Oral-Rat) 92 gm/kg/92 days-continuous: Liver: changes in liver weight; Blood: changes in leukocyte (WBC) count; Nutritional and Gross Metabolic: weight less or decreased weight gain

SUSPECTED CANCER AGENT: There is a Notice of Intended Change regarding the carcinogenic potential for the Oil Mist, Mineral, via inhalation exposure. Oil Mist, Mineral containing sum total of 15 polynuclear aromatic hydrocarbons (PAHs) are listed as carcinogens by the U.S. National Toxicology Program (NTP). The time-weighted average is 0,005 mg/m³. The proposed Carcinogenicity Designation is A2. The TLV Basis Critical Effects are lung and cancer. Carcinogenicity Designation A2 is Suspected Human Carcinogen (Human data are accepted as adequate in quality but are conflicting or insufficient to classify the agent as a confirmed human carcinogen, OR, the agent is carcinogenic in experimental animals at doses(s) by route(s) of exposure, at site(s), of histologic types(s), or by mechanism(s) considered to be relevant to worker exposure. The A2 rating is used primarily when there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans).

The remaining components of this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, and CAL/OSHA and therefore are not considered to be, nor suspected to be, a cancer-causing agent by these agencies.

IRRITANCY OF PRODUCT: Prolonged skin contact will be mildly to moderately irritating. Contact with the eyes will be irritating.

SENSITIZATION TO THE PRODUCT: The components of this product are not known to be skin or respiratory sensitizers.

REPRODUCTIVE TOXICITY INFORMATION: Currently, there is no information concerning the effects of the components on this product in greater than 1% concentration in the product on the human reproductive system.

Mutagenicity: No component of this product is reported to produce mutagenic effects in humans.

Embryotoxicity: No component of this product is to produce embryotoxic effects in humans.

Teratogenicity: No component of this product is reported to cause teratogenic effects in humans.

Reproductive Toxicity: No component of this product is reported to cause reproductive effects in humans.

A <u>mutagen</u> is a chemical that causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An <u>embryotoxin</u> is a chemical that causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical that causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance that interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURE INDICES: Currently, there are no Biological Exposure Indices (BEIs) established for the components of this product.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: This product will eventually decompose into organic materials overtime in the environment.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: An adverse effect may occur if plants or animals are contaminated with a large amount of this product.

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product may be harmful to aquatic plant or animal life, especially if large volumes of this product are released into a body of water.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations or with regulations of Canada, Australia, or EC Member States. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

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

14. TRANSPORTATION INFORMATION

THIS PRODUCT 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 Regulated
Not Applicable
Not Applicable
Not Applicable

EMERGENCY RESPONSE GUIDEBOOK NUMBER, 2000: Not Applicable

- MARINE POLLUTANT: No component of this product is designated by the DOT to be a Marine Pollutant (per Appendix B to 49 CFR 172,101).
- TRANSPORT CANADA. TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is not considered as dangerous goods, per regulations of Transport Canada. Refer to above U.S. DOT shipping information for shipments to Canada.
- INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This material is not considered as dangerous goods by the International Air Transport Association.
- INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods by the International Meritime Organization.
- EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.
- AUSTRALIAN FEDERAL OFFICE OF ROAD SAFETY CODE FOR THE TRANSPORTATION OF DANGEROUS GOODS BY ROAD OR RAIL. This product is not considered as dangerous goods, per regulations of the Federal Office of Road Safety.

15. REGULATORY INFORMATION

ADDITIONAL UNITED STATES REGULATIONS:

- U.S. SARA REPORTING REQUIREMENTS: 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.S. SARA THRESHOLD PLANNING QUANTITY: 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. SARA HAZARD CATEGORIES: ACUTE: Yes; CHRONIC: Yes; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No.
- U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.
- U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory.
- OTHER U.S. FEDERAL REGULATIONS: Not applicable.
- U.S. STATE REGULATORY INFORMATION; Components of this product are covered under specific State regulations, as denoted below;
- Alaska Designated Toxic and Hazardous Substances: None.
- California Permissible Exposure Limits for Chemical Contaminants: None.
- Florida Substance List: None.
- Illinois Toxic Substance List: None.
- Kansas Section 302/313 List: None.
- Messachusetts Substance List: 2 None.
- Michigan Critical Materials Register: None.
- Minnesota List of Hazardous Substances: None
- Missouri Employer Information/Toxic Substance List; None. New Jersey - Right to Know Hazardous Substance List: None.
- New Jersey Right to Know Hazardous Substance List: Nono.

 North Dakota List of Hazardous Chemicals, Reportable Quantities; None.
- Pennsylvania Hazardous Substance List: None.
- Rhode Island Hazardous Substance List: None.
- Texas Hazardous Substance List: None,
- West Virginia Hazardous Substance List; None.
- Wisconsin Toxic and Hazardous Substances: None.
- CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): No component of this product is on the California Proposition 65 lists.

ANSI LABELING (Z129.1): CAUTIONI CAN CAUSE EYE IRRITATION. INHALATION, INGESTION AND ASPIRATION INTO THE LUNGS MAY BE HARMFUL. PROLONGED SKIN CONTACT MAY CAUSE IRRITATION. KEEP OUT OF REACH OF CHILDREN. Use with adequate ventilation. Avoid contact of liquid with skin, eyes, and clothing. Avoid exposure to vapors, mists, or sprays. Wash thoroughly after handling. Wear appropriate hand and eye protection. FIRST-AID: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. If inhaled, remove to fresh air. If swallowed, do not induce vomiting. Get medical attention if irritation develops or persists or if any other adverse effect occurs. IN CASE OF FIRE: Use water fog, dry chemical, or CO₂, or sicohol foam. IN CASE OF SPILL: Absorb spill with inert materials (e.g., polypads, dry sand). Rinse area with scapy water. Consult Material Safety Data Sheet for additional information.

ADDITIONAL CANADIAN REGULATIONS:

CANADIAN DSI /NDSL INVENTORY STATUS: The components of this product are listed on the DSL Inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITY SUBSTANCES LISTS: The components of this product are not on the CEPA Priority Substances Lists.

CANADIAN WHMIS SYMBOLS: Not applicable.

EUROPEAN COMMUNITY INFORMATION:

EC LABELING/CLASSIFICATION: This product does not meet the definition of a hazardous substance, as defined by the European Community Council Directive 67/548/EEC.

EUROPEAN COMMUNITY ANNEX II HAZARD SYMBOL: Not applicable.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: The components of this product listed by CAS# in Section 2 (Composition and Information on Ingredients) are listed on the AICS.

LIST OF DESIGNATED SUBSTANCES: Not applicable.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

LABELING AND CLASSIFICATION: This product does not meet the definition of any hazard classification criteria, based a review of the regulation [NOHSC: 10005 (1994)].

16. OTHER INFORMATION

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc. PO Box 3519, La Mesa, CA 91944-3519 619/670-0609

DATE OF PRINTING:

March 25, 2002

The data in this Material Safety Data Sheet is true and accurate to the best of Teitelbaum Brothers, Inc.'s knowledge. However, since data, safety standards, and government regulations are subject to change conditions of handling, use, or misuse are beyond Teitelbaum Brothers, Inc. control, Teitelbaum Brothers, Inc. MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. The user is required to comply with all laws and regulations relating to the purchase, use, storage, and disposal of the product. User must be familiar with and follow generally accepted safe handling procedures of chemicals, and is solely responsible for any effects caused by its misuse or mixing of this chemical with any other substance.

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 that uniquely identifies each constituent.

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 that 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 (STEL), and the instantaneous Celling Level. 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 Redister</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 that 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 - MAX 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); 1 (extreme acute exposure hazard; onetime overexposure can be fetal). Flammability Hazard: 0 (minimal hazard); 1 (materials that require substantial pre-heating before burning); 2 (combustible liquid or suits, 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 bolling 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 can detonate at which can react violently with water); 3 (materials that can detonate at hormal temperatures or pressures). PPE Rating 8: Hand and eye protection is required for routine chemical use. PPE Rating C: Hand, eye, and body protection may be required for routine chemical use.

NATIONAL FIRE PROTECTION ASSOCIATION; Health Hazard: 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 Netional Fire Protection Association (NFPA). Flesh Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. <u>Autoination Temperature</u>: The minimum temperature required to initiate combustion in air with no other source of ignition. <u>LEL</u> - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. <u>UEL</u> - 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: LDs. - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; LCs. - Lethal Concentration (gases) which kills 50% of the exposed animals; ppm concentration expressed in pans of material, per million parts of air or water, mg/m² concentration expressed in weight of substance per volume of air, mg/m² quantity of material, by weight, administered to a test subject, based on their body weight in kg. Other measures of texicity 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 texic 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. TL_m = median threshold limit; Coefficient of Oil/Weter Distribution is represented by log K_m or log K_m 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 procautionary warnings which appear on the material's package labet.

EUROPEAN and INTERNATIONAL: EC is the European Community (formerly known as the EEC, European Economic Community). EINECS: This is the European Inventory of Now-Existing Chemical Substances. 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. AICS is the Australian Inventory of Chemical Substances. MITI is the Japanese Minister of International Trade and Industry.