** MATERIAL SAFETY DATA SHEETS **

Siskin Enterprises, Inc.
P.O. Box 58
Salt Lake City, UT 84110
(800) 453-8470

Updated: 03-17-00

PRODUCT NAME: **Perma-Plate Fiberguard**

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S):

PRODUCT IDENTIFICATION(S): Solv 1241 OMS / C2-0563 Repellent
CHEMICAL FAMILY(S): Hydrocarbon Mixture
CHEMICAL NAME(S): Odorless Mineral Spirits / C2-0563 Repellent
GENERIC NAME(S): Volatile Solvent / Polysiloxane In Solvent
D.O.T. PROPER SHIPPING NAME(S): Petroleum Naphtha / Flammable Liquid, N.O.S.
D.O.T. HAZARD NAME(S): Mineral Spirits, Xylene / Stoddard Solvent
D.O.T. ID NUMBER(S): UN1255 / UN1993
CAS NUMBER(S): 8052-41-3 / Mixture

HAZARDOUS COMPONENTS	APPROX. WGT. %	ACGIH TLV	OSHA PEL	CAS REG NO.	TYPE
Stoddard Solvent	56	100.000 ppm		008052413	TWA
		200.000 ppm		008052413	STEL
			300.000 ppm	008052413	TWA
Trimethylated Silica	16			068988567	
Observe limits for isopropyl alcohol formed on exposure to water or humid air. Dow Corning Guide: 5 MG/M3 Ceiling.					
Tetraisopropoxy Titanate	12	400.000 ppm		000546689	TWA
			500.000 ppm	000546689	STEL
Xylene	9	150.000 ppm		001330207	STEL
			100.000 ppm	001330207	TWA
2-Ethyl-1, 3-Hexanediol	5			000094962	
*** Not Established, Also See Comment ***					
1,2,4-Trimetyl Benzene	1	25.000 ppm	25.000 ppm	000095636	TWA
Observe Trimethyl Benzene Limits					
Tetra-(Trimethylsiloxy) Silane	1	*** Not Established ***			

Comment:
2-Ethylhexanol may form during use; exposure limits have not been established.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 346-406 Deg. F (at 760 MM HG): Not Determined.
Specific Gravity (H_2O=1: 0.795-0.9 (at 60-77 Deg. F/25 Deg. C)
Vapor Pressure (mm Hg): 1.2 MM HG @ 20 C/(at 77 Deg F/25 Deg C): Not Determined.
Melting Point: Not Applicable.
Vapor Density (Air=1): at 77 Deg F/25 Deg C: 5.2
Evaporative Rate (Butyl Acetate=1): 0.17 / (ether = 1): Not Determined.
Solubility In Water: Negligible (<5%) / Less than 0.1
Appearance and Odor: Liquid clear - slight color; Solvent odor.
Percent Volatile By Weight (%): Approx. 90

FIRE AND EXPLOSION HAZARD DATA

Flash Point: 125, TCC F / (Method Used): Closed cup, 55F/13C
Auto Ignition: Not Determined.
Flammability Limits in Air: Lower (% Vol.) –1 Upper (% Vol.) –6.0
Extinguishing Media: Dry chemical, CO2 or a universal type foam.

Special Fire Fighting Procedures: The use of a SCBA is recommended for fire fighters. Protective clothing should be worn in fighting fires involving chemicals. Water spray may be useful in minimizing vapors and cooling containers exposed to heat or flame. Avoid spreading burning liquid with water used for cooling purposes.

Unusual Fire and Explosion Hazards: This material is combustible and may be ignited by heat or flame. This material will burn, but will not ignite readily. Vapors are heavier than air and can travel along ground to remote ignition sources.

GENERAL INFORMATION
D.O.T. HAZARD CLASS: Combustible Liquid / Flammable Liquid.
RCRA HAZARD CLASS: Ignitable, F003
E.P.A. PRIORITY POLLUTANTS: None
NFPA – NATIONAL FIRE PROTECTION ASSOCIATION – 704
HEALTH (NFPA): 2 FLAMMABILITY (NFPA): 3 REACTIVITY (NFPA): 0

REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): This product is incompatible with strong acids or bases oxidizing agents and selected amines.
Hazardous Decomposition or Byproducts: Thermal decomposition in the presence of air may yield Carbon Monoxide and/or Carbon Dioxide.
Hazardous Polymerization: Will not occur.

HEALTH HAZARD DATA

HAZARD(S) as defined by OSHA Hazard Communications Standard: Toxic by ingestion. Eye irritant, Skin irritant. Respiratory irritant.
Primary Route(s) of Entry: Inhalation, skin contact, ingestion.

HEALTH HAZARDS (Acute and Chronic):

Eye Contact: This material may cause eye irritation. Direct contact with the liquid or exposure to its vapors or mists may cause burning, tearing and redness.

Skin Contact: This material is not known to be a skin irritant. Prolonged or repeated exposure to this material may cause redness, burning, drying and cracking of the skin.

Inhalation (breathing): Breathing high concentrations of vapors or mists may cause: irritation of the nose and throat, signs of nervous system depression (e.g. drowsiness, dizziness, loss of coordination and fatigue). Respiratory symptoms associated with pre-existing lung disorders (e.g., asthma-like conditions) may be aggravated by exposure to this material.

Ingestion (swallowing): Ingestion of excessive quantities may cause: irritation of the digestive tract, signs of nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue). Aspiration hazard – this material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

COMMENTS: NIP, IARC or OSHA has not identified this substance as a carcinogen or probable carcinogen. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as solvent or painters' syndrome). Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: If irritation or redness from exposure to vapors develops, move victim away from exposure and into fresh air. If irritation or redness persists, obtain medical attention. For direct contact, flush the effected eye(s) with clean water. Obtain medical attention.

Skin Contact: Remove contaminated clothing. Cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, obtain medical attention.

Inhalation (breathing): If irritation of nose or throat develops, move victim away from source of exposure and into fresh air. If irritation persists, obtain medical attention. If victim is not breathing, artificial respiration should be administered. If breathing difficulties develop, oxygen should be administered by qualified personnel. Obtain immediate medical attention.

Ingestion (swallowing): Aspiration hazard. Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious, place on the left side with the head down. If possible, do not leave victim unattended. Obtain medical attention.

PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Precautions in case of release or spill: Stay upwind and away from spill. Keep all sources of ignition and hot metal surfaces away from spill. If spill is indoors, ventilate area of spill. A universal type foam may be used to suppress vapors. Keep out of drains, sewers or waterways. Use sand or other inert material to dim and contain spill. Do not flush area with water. For small spills, do not flush with water; use absorbent pads. Call spill response team if large spill. Notify appropriate state/local agencies.

WASTE DISPOSAL METHOD:
Dispose of in accordance with your responsibilities under EPA Resource Conservation and Recovery Act (RCRA), State / Local requirements.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Keep containers tightly closed. Keep containers cool and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use a good personal hygiene practice. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death. Containers should be disposed of in an environmentally safe manner and in accordance with Governmental Regulations.

CONTROL MEASURES

Respiratory Protection: The use of respiratory is advised when concentrations exceed the established exposure limits. Depending on the airborne concentration, use an organic mask or gas mask with appropriate cartridges and canisters (NIOSH approved, if available) or supplied air equipment.
Ventilation: If currant ventilation practices are not adequate for minimizing exposures, additional ventilation or exhaust system may be required. Where explosive mixtures may be present, systems safe for such locations should be used.
Protective Gloves: The use of gloves impermeable to the specific material handled is advised to prevent skin contact and possible irritation.
Eye Protection: The use of approved eye protection is advised to safeguard against potential eye contact, irritation or injury.
Other Protective Clothing Or Equipment: Impervious clothing should be worn as needed. Use ground bonded equipment.
Work/Hygienic Practices: It is suggested that a source of clean water be available in work area for flushing eyes and skin. Follow good personal hygiene practices.

NOTE: The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application that is not described in the product Data Sheet is the responsibility of the user.

This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communication Regulations.

MATERIAL SAFETY DATA SHEET

Siskin Enterprises, Inc.
P.O. Box 58
Salt Lake City, UT 84110
(800)453-8470

Updated: 03-17-00

PRODUCT NAME: **Perma-Plate Paintguard**

HAZARD(S) As defined by OSHA Hazard Communication Standard: Toxic by ingestion. Eye irritant.

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, SISKIN ENTERPRISES, 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. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.

COMPONENTS

Chemical Name	CAS Number	% by wt.	TLV
Components comprise proprietary information.			

PHYSICAL DATA

Appearance: White Viscous Liquid.		*Specific gravity:*	0.95
Odor: Solvent odor		*pH (neat):*	6.0 - 7.0
Boiling point: 140 F		*Percent Volatile*	
Solubility: Insoluble in water		*by volume (%):*	79.0

FIRE AND EXPLOSION DATA

Flash point: 113 CLOSED CUP *Flammable limits in air:* Lower: 1 Upper: 6
Extinguishing Media: Carbon dioxide, dry chemicals, foam, or water spray.
Special Firefighting Procedures: For fires involving this material, do not enter any enclosed or confined space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency.

Unusual Fire and Explosion Hazards: Liquid evaporates and forms vapors, which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85 F.

TOXICITY

Acute Oral: LD50 20,000 RAT MG/KG. Not expected to be acutely toxic by ingestion.
Note to Physician: Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis.

HEALTH EFFECTS AND FIRST AID

Threshold limit value: 125 ppm in air.
Inhalation: Breathing the vapors at concentrations above the exposure standard can cause central nervous system depression.

First Aid: if there are signs or symptoms, as described in this bulletin, due to breathing this material, move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a physician immediately.

Skin Contact: Prolonged or repeated contact may cause skin irritation or may cause the skin to become cracked or dry from the defatting action of the material.

First Aid: Wash thoroughly with soap and water following skin contact. Launder contaminated clothing.

Eye Contact: Not expected to be a primary eye irritant. However, minor irritation may be noted following contact.

First Aid: Wash eyes with fresh water for at least 15 minutes. If irritation persists, see a physician.

Ingestion: See toxicity.

First Aid: If swallowed, Do Not make person vomit. Call a doctor immediately.
Addition health data: Signs and symptoms of central nervous system depression may include one or more of the following: Headache, dizziness, loss of appetite, weakness, and loss of coordination. Affected persons usually experience complete recovery when removed from the exposure area.

REACTIVITY DATA

Stability: Stable.
Incompatibility: May react with strong oxidizing materials.
Hazardous Decomposition Products: Normal combustion forms carbon dioxide and water vapor;

incomplete combustion can produce carbon monoxide.
Hazardous Polymerization: Will not occur.
Conditions to avoid: None know.

SPILL AND LEAK PROCEDURES

Precautions if material is spilled or released: Eliminate all open flames in vicinity of spill or released vapor. Clean up spills as soon as possible, observing precautions in special protection information. Absorb large spills with absorbent clay, diatomaceous earth, or other suitable material. A fire of vapor hazard may exist since these cleanup materials will only absorb liquid; they will not absorb vapor.

Product disposal: Place contaminated materials in disposable containers and bury in an approved dumping area.

SPECIAL PROTECTION INFORMATION

Ventilation: Use adequate ventilation to keep the airborne concentrations below the exposure standard.

Respirator: Approved organic vapor cartridge respirator or air-supplying respirator unless ventilation equipment is adequate to keep airborne concentrations.
Gloves: Rubber
Eye Protection: Safety Goggles
Other Protective Equipment: Eye wash and safety shower

SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Do Not use or store near flame, sparks, or hot surfaces. Use only in well ventilated area. Keep container closed. Replace cap or bung.
Other Precautions: Do Not use pressure to empty drum or explosion may result.

REGULATORY CLASSIFICATIONS

DOT Shipping: Combustible Liquid, N.O.S. (Petroleum Distillates), Combustible Liquid, NA 1993, III.
EPA Registration: N/A
FDA Registration: N/A

NOTE: The Information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application, which is not described in the Product Data Sheet is the responsibility of the user.
This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communication regulations.

** MATERIAL SAFETY DATA SHEET **

Siskin Enterprises, Inc.
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(800) 453-8470

Updated: 03-17-00

PRODUCT NAME: **Perma-Plate Leatherguard**

HAZARDOUS INGREDIENTS / INDENTITY INFORMATION

SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S):

PRODUCT IDENTIFICATION: SM2109
CHEMICAL FAMILY: Silicone Emulsion
CHEMICAL NAME: Aqueous Emulsion
FORMULA: Mixture

HAZARDOUS COMPONENTS	APPROX. WGT. %	ACGIH TLV	OSHA PEL	UNITS	CAS REG #
A) HAZARDOUS					
Alkyl Arul Ether	1-5	NE	N.E.	NA	9036-19-5
Trade Secret Component	1-5	5	10	MG/M3	
B) NON-HAZARDOUS					
Polydimethylsiloxane	30-60	NF	NF	NA	63148-62-9
Water	30-60	NF	NF	NA	7732-18-5*
Amino Func. Polydimethylsiloxane	5-10	NF	NF	NA	67923-07-3

Formulation Information: A trade secret component above is an ethylhydroxy polyol. A Canadian WHMIS registry number has been applied for.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 212 (F) 100 (C)
Vapor Pressure (mm Hg): (20 C) NA
Vapor Density (Air=1): 982.5 KG/M3
Solubility In Water: (20C) Emulsion
Appearance and Odor: White odorless liquid.
Odor Threshold: Unknown (PPM)
Freezing Point: 32 (F) / 0 (C)
Specific Gravity (H_2O=1): 1.1
Melting Point: NA (F) / NA (C)
Evaporation Rate (Butyl Acetate=1): <1
Solubility In Organic Solvent: Unknown
PH: Unknown
Acid/Alkalinity: NA MEG/G

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None (F) None (C) By PMCC.
(Ignition Temp: NA (F) NA (C))
Flammable Limits: Lower – NA Upper – NA
Extinguishing Media: All standard fire fighting media..
Special Fire Fighting Procedures: None known.
Unusual Fire And Explosion Hazards: None Known.
Sensitivity To Mechanical Impact (Y/N): N.
Sensitivity To Static Discharge: Not expected.
% Volatile By Volume: 36.

REACTIVITY DATA

Stability: X stable.
Incompatibility (materials to avoid): None known.
Hazardous Decomposition Or Byproducts: Silicon dioxide.
Hazardous Polymerization: Polymerization will not occur.

HEALTH HAZARD DATA

HAZARDS(S) as defined by OSHA Hazard Communication Standards: Toxic by ingestion. Eye irritant and skin irritant.
Route(s) Of Entry: Inhalation, skin contact, ingestion.

HEALTH HAZARDS (acute and chronic):

ACUTE EFFECTS OF OVEREXPOSURE:
Ingestion (swallowing): May be harmful if swallowed.
Skin Contact: May cause moderate skin irritation.
Inhalation (breathing): None known.
Eye Contact: May irritate eyes.
CHRONIC EFFECTS OF OVEREXPOSURE:
Carcinogenicity: This product or one of its ingredients present 0.1% or more is not listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.
Medical Conditions Generally Aggravated By Exposure: None known.
EMERGENCY AND FIRST AID PROCEDURES:
Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Skin: Wash with soap and water. Obtain medical attention if irritation persists.
Inhalation: None known.
Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and obtain medical attention if irritation persists.

PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective equipment section.

WASTE DISPOSAL METHOD: Dispose of in accordance with your responsibilities under EPA Resource Conservation and Recovery Act (RCRA), state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid Contact with eyes.

OTHER PRECAUTIONS: None known.

CONTROL MEASURES

RESPIRATORY PROTECTION (specify type): The use of respiratory protection is advised when concentrations exceed the established exposure limits. Depending on air borne concentrations, use an organic vapor mask or gas mask with cartridges and canisters (NIOSH approved, if available) or supplied air equipment.

VENTILATION: If currant ventilation practices are not adequate for minimizing exposures, additional ventilation or exhaust systems may be required.

PROTECTIVE GLOVES: The use of gloves impermeable to the specific material being handled is advised to prevent skin contact and possible irritation.

EYE PROCTECTION: Approved eye protection to safeguard against potential eye contact, irritation or injury is recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: impervious clothing should be worn as needed.

WORK/HYGIENIC PRACTICES: It is suggested that a source of clean water be available in work area for flushing eyes and skin. Follow good personal hygiene practices.

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