I. Schneid

NFPA/HMIS : HEALTH - 2
FLAMMABILITY - 2
REACTIVITY - 0

MATERIAL SAFETY DATA SHEET U.S. DEPARTMENT OF LABOR
COMPLIES WITH USDL SAFETY AND HEALTH REGULATIONS, (29 CFR 1910.1200)

SECTION I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MIRRO FLEX
PRODUCT USE: POLYURETHANE COATING

PRODUCT CODE: 5825
MSDS NUMBER: KOS : 34

I. SCHNEID, INC.
1429 FAIRMONT AVE. NW
ATLANTA, GA 30318

EMERGENCIES: (404)-351-4705
HOURS: M-F - 8AM-5PM EASTERN
REVISION DATE: 040998 (5)

SECTION II COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER	CHEMICAL NAMES	%	TLV(UNITS)
8052-41-3	MINERAL SPIRITS	< 49.00	100 (PPM)
27253-32-3	MANGANESE, 6%	< 0.50	5 MG/CU M
22464-99-9	ZIRCONIUM, 6%	< 1.50	5 MG/CU M

n/e = none established

SECTION III HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF ENTRY: Skin contact/absorption, inhalation and eye contact

SIGN AND SYMPTOMS OF OVEREXPOSURE: Gastrointestinal irritation (nausea, vomiting, diarrhea). Irritation to nose, throat, and respiratory tract.

TARGET ORGAN EFFECTS: Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans: mild, reversible liver effects, mild, reversible kidney effects.

IMMEDIATE HEALTH EFFECTS
EYES: Exposure may cause mild eye irritation. Symptoms may include stinging, tearing, and redness.
SKIN: Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms include redness, burning, drying and cracking, and skin burns. Additional symptoms of skin contact may include: Allergic skin reaction. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.
INGESTION: Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful.
INHALATION: Exposure to vapor or mist is possible. Short term inhalation is not likely to cause harmful effects; breathing large amounts may be harmful. Symptoms are more typically seen at air concentrations exceeding the recommended exposure limits.

REPRODUCTIVE/DEVELOPMENTAL INFORMATION
This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

CARCINOGENIC INFORMATION
This material is not listed as a carcinogen by IARC, NTP or OSHA.

LONG TERM EFFECTS
No data

SECTION IV FIRST AID MEASURES

EYES: Flush with water, if irritation persists, call physician.
SKIN: Flush with water.

INGESTION: Drink milk or other liquid to dilute substance, call a physician immediately. Do not induce vomiting.
INHALATION: If symptoms of overexposure develop, remove victim to fresh air.

SECTION V FIRE FIGHTING MEASURES

Flash Point
103 degrees Fahrenheit (C.C. Method)

Explosive Limit
No data

Autoignition Temperature
No data

Hazardous Products of Combustion
May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards
Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing Media
Dry chemical, foam, carbon dioxide

Fire Fighting Instructions
Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS

NFPA/HMIS Ratings:
Health: 2, Flammability: 2, Reactivity: 0

SECTION VI ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid on vermiculite, floor absorbent or other absorbent material.

LARGE SPILL: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

SECTION VII HANDLING AND STORAGE

HANDLING
Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperatures values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions

SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION
Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

SKIN PROTECTION
Wear rubber gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY PROTECTION
If workplace exposure limits of product or any component are exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

ENGINEERING CONTROLS
Provide sufficient mechanical (general and local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor
Clear, amber liquid with solvent odor

Vapor Pressure
Unknown

Vapor Density
Unknown

Boiling Point
360 degrees Fahrenheit

Solubility in Water
Insoluble

Evaporation Rate
(N-Bu-Ac=1) : 0.095

Percent Volatiles
72%

Specific Gravity
(H2O=1) 0.83 +/- 0.02

SECTION X STABILITY AND REACTIVITY

Chemical Stability
Stable

Conditions To Avoid
Temperature extremes

Incompatibility
Avoid strong oxidizing agents

Hazardous Decomposition
May form carbon monoxide, carbon dioxide, acrid fumes & smoke

Hazardous Polymerization
Will not occur

SECTION XI TOXICOLOGICAL INFORMATION

No Data

SECTION XII ECOLOGICAL INFORMATION

No Data

SECTION XIII DISPOSAL CONSIDERATION

WASTE DISPOSAL INFORMATION
Dispose of in accordance with all applicable Federal, State, and Local regulations.

SECTION XIV TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101
DOT Description:
PAINT AND RELATED MATERIAL
ITEM 149980 Sub 2 (Class 55)

Packaged in steel containers

RQ (Reportable Quantity) - 49 CFR 172.101
Not applicable

SECTION XV REGULATORY INFORMATION

US FEDERAL REGULATIONS
TSCA (Toxic Substances Control Act) Status
TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 355 Appendix A
None
SARA 302 Components - 40 CFR 355 Appendix A
None
Section 311/312 Hazard Class - 40 CFR 370.2
Immediate(X) Delayed(X) Fire(X) Reactive( ) Sudden
Release of Pressure( )
SARA 313 Components - 40 CFR 372.65
None

STATE AND LOCAL REGULATIONS
California Proposition 65
None
North Carolina Administrative Code 2D.1104 and 2H.0610
None
South Carolina Regulation 62.5 Standard Number 8
None

SECTION XVI OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

This information was compiled from current manufacturer's MSDS's of the component parts of the product.
As well as other sources, such as:

Code of Federal Regulations 29, Revised as of July 1, 1994.

Code of Federal Regulations 40, Revised as of July 1, 1994.

ACGIH, Guide to Occupational Exposure Values, 1998.

ANSI Z129.1-1994, Precautionary Labeling for Hazardous Industrial Chemicals.

Hazard Communication Handbook, A Right To Know Compliance Guide, Craig A. Mayer & Michael Francis. Clark Broadman Company, Ltd. New York, NY 1992.