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MATERIAL SAFETY DATA SHEET

CORPORATE RESEARCH & DEVELOPMENT

SCHENECTADY, N. Y. 12305

**MATERIALS
IS
SERVICES
INFORMATION**

No. 1258

VAR SOL 18

Date May 1982

SECTION I. MATERIAL IDENTIFICATION

MATERIAL NAME: VAR SOL 18

DESCRIPTION: Highly aliphatic petroleum solvent or mineral spirits of low photoreactivity to meet air pollution regulations.

OTHER DESIGNATIONS: GE Material D5B8A2, ASTM D235, ASTM D484, Type 1

MANUFACTURER: Exxon Co.

P.O. Box 2180

Houston, Texas Tel: (713) 656-3424

SECTION II. INGREDIENTS AND HAZARDS

Mixture of petroleum hydrocarbons

Typical Composition:

	Vol %
Aromatics	7.7
Olefins	0.2
Saturates	92.1
Sulfur content	2 ppm

*Exxon has recommended this 8-hr TWA and indicates that further toxicology study is being conducted. (ACGIH (1982) TLV for Stoddard Solvent is 100 ppm.) This low aromatic content material meets requirements of Southern California Air Pollution District Rule 102 (formerly Rule 66).

%

HAZARD DATA

100

8-hr TWA 200 ppm*

Rat, Oral

LD₅₀ >5 g/kg

Rabbit, Dermal

LD₅₀ >2 g/kg**SECTION III. PHYSICAL DATA**

Boiling range, 1 atm, deg C ----	155-205	Specific gravity, 15.6/15.6C ----	ca 0.77
Vapor pressure, 25C, mmHg ----	<10	Evaporation rate (n-BuAc=1) ----	0.1
Vapor density (Air=1) ----	ca 5	Volatiles, % ----	100
Solubility in water ----	Negligible	Molecular weight (avg) ----	ca 140

Appearance & Odor: Water-white liquid; mineral spirits odor (no long-lasting odor after evaporation).

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	LOWER	UPPER
ca 43C (110F) (TCC)	254C (ASTM D2155)	% by Volume @ 25C	0.9	6.0

Extinguishing Media: Dry chemical, carbon dioxide, foam, water spray or fog.

Water spray can be used to keep fire-exposed containers cool to avoid pressure rupture.

This material is an OSHA Class II Combustible Liquid. It is a dangerous fire hazard if heated or sprayed in air.

Firefighters should wear self-contained breathing apparatus for fighting fires in enclosed areas.

SECTION V. REACTIVITY DATA

This is a stable material in closed containers at room temperature under normal storage and handling conditions. It does not polymerize.

Incompatible with strong oxidizing agents such as chlorine, conc. oxygen, calcium hypochlorite, nitric acid, etc.

Thermal-oxidative degradation may produce carbon monoxide and partially oxidized hydrocarbons.

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SECTION VI. HEALTH HAZARD INFORMATION

TLV Estimate 200 ppm (See Sect II)

Varsol, like all petroleum distillates, is a central nervous system depressant. Symptoms of overexposure to high vapor conc. range from headache and dizziness to possible convulsions and unconsciousness.

Eye contact with the liquid may cause conjunctivitis. Prolonged or repeated skin contact causes a defatting effect, resulting in irritation, drying, cracking and dermatitis.

FIRST AID:

Eye Contact: Flush thoroughly with running water for 15 min. including under eyelids. Get medical help if irritation persists.

Skin Contact: Remove contaminated clothing. Wash affected area thoroughly with soap and water. Get medical help if large area contacted or if irritation persists.

Inhalation: Remove to fresh air. Restore and/or support breathing as required.

(Administer oxygen if breathing difficult). Contact physician for further treatment, observation and support.

Ingestion: Do not induce vomiting; Contact physician immediately. Aspiration hazard. Give a few ounces of USP White mineral oil.

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Notify safety personnel of leaks or spills. Remove sources of heat or ignition.

Provide explosion-proof ventilation. Clean-up personnel need protection against inhalation and skin contact. Contain spill and recover free liquid if possible. Use absorbent (sand, earth, sawdust, etc) to clean up small spills and residues. Do not discharge into sewers or surface waters. (Notify authorities if product enters, or may enter, sewer or waterway.)

DISPOSAL: Waste material may be burned in an approved incinerator. Follow Federal, State, and Local regulations.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Provide general and local exhaust ventilation to meet estimated TLV requirements. Local exhaust hoods should have at least 60 fpm face velocity. Use explosion-proof electrical equipment and services. Have air-supplied or self-contained respiratory apparatus available for nonroutine or emergency use or when working in a confined or enclosed area. (Canister respirator may be suitable for short-time usage.)

Wear impermeable gloves and additional protective clothing to prevent prolonged or repeated skin contact. Use safety goggles and/or faceshield for eye protection where splashing is possible. An eyewash station is desirable where splashing is probable. A safety shower may be desirable where large amounts are used.

Launder contaminated clothing before reuse. Thoroughly dry contaminated shoes before reuse.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers in a cool, well-ventilated area away from sources of heat, flame, ignition and strong oxidizing agents. Protect containers from physical damage. Keep containers closed when not in use. Use safety cans for small amounts. Handling and storage conditions must be suitable for OSHA Class II Combustible Liquid. Bond and ground containers for transfers to avoid static sparks. Avoid inhalation of vapors. Avoid prolonged or repeated contact with skin. Prevent eye contact with liquid. Prohibit smoking or flame in use areas. Ventilate area where used. Electrical services to meet code.

DOT Classification: COMBUSTIBLE LIQUID

DATA SOURCE(S) CODE: 1,2, MSDS #334

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APPROVALS: MIS
CRD

Industrial Hygiene
and Safety

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