

MATERIAL SAFETY DATA SHEET

THE FLOOD COMPANY P O BOX 2535 HUDSON OHIO 44236-0035
PH: 1-800-321-3444 FAX: 216-650-1453

LOW VOC PENETROL

SECTION I - PRODUCT IDENTIFICATION

NAME	The Flood Company 1212 Barlow Road P.O. Box 2535 Hudson, Ohio 44236-0035
EMERGENCY TELEPHONE NO. TRANSPORTATION	800-321-3444 or your local poison control center or Chemtrec @ (800) 424-9300 (24 hours)
PRODUCT NAME PRODUCT CLASS	LOW VOC PENETROL Paint oil
DATE OF PREPARATION/CHANGE PREPARED BY	12/9/99 Safety & Compliance Officer

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PER- CENT	OCCUPATIONAL EXPOSURE LIMIT TLV PEL	VAPOR PRESSURE	LD50 ORAL - RAT	LC50 IHL - RAT
Petroleum Distillates CAS # 64742-88-7	44.6	100ppm 500ppm	<1.0mm Hg @ 70° F	N/A	Not Available
Mineral Spirits CAS #8052-41-3	<10	100ppm 100 ppm	Not Available	N/A	Not Available
Ethyl Benzene CAS #100-41-4	<0.1	100ppm 100ppm	10mm Hg @ 26°F	3500 mg/kg	Not Available
Cobalt Compounds	<1.0	N/A 0.1 mg/m ³ *	Not Available	N/A	N/A

*Calculated as cobalt in that portion of dust that can possibly be inhaled.

SECTION III - PHYSICAL DATA

BOILING RANGE	300-500 DEGREES F.
VAPOR DENSITY	HEAVIER THAN AIR
EVAPORATION RATE	SLOWER THAN ETHER
VOLATILE VOLUME	50%
WEIGHT/GALLON	7.4 LBS/GAL
PHYSICAL STATE	LIQUID
APPEARANCE & ODOR	CLEAR AMBER, MILD SOLVENT ODOR
ODOR THRESHOLD	NOT AVAILABLE
FREEZING POINT	NOT APPLICABLE
pH	NOT APPLICABLE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 125° F. T.C.C.	LEL: NOT ESTABLISHED		
EXTINGUISHING MEDIA:	(X) FOAM	() ALCOHOL FOAM	(X) CO2
	(X) DRY CHEMICAL	(X) WATER FOG	() OTHER
UPPER FLAMMABLE LIMIT:	NOT AVAILABLE		

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LOWER FLAMMABLE LIMIT: NOT AVAILABLE

USUAL FIRE AND EXPLOSION HAZARDS: Combustible. Exposure of closed containers to heat can cause disruptive pressure. 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. Do not flush into public sewer system.

SPECIAL FIREFIGHTING PROCEDURES: Avoid breathing fumes. Wear adequate respiratory protection. Water may be ineffective as extinguishing medium but may be used to cool closed containers exposed to heat. Respiratory protection should be self-contained, breathing apparatus type with a full face piece operated in a pressure demand or other positive pressure mode.

SECTION V - TRANSPORTATION DATA

DOT - COMBUSTIBLE LIQUID

Not regulated by ground transportation in non-bulk packaging (450L or 119 gallons of less) per 49 CFR 173.150 (f)(2).

SECTION VI- TOXICOLOGICAL PROPERTIES

EFFECTS OF OVEREXPOSURE:

SKIN: May cause skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in dermatitis.

EYE: May cause irritation. Symptoms include stinging, tearing, redness.

INHALATION: Vapors may cause narcosis and irritation of respiratory system. Prolonged or repeated contact can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.

SWALLOWING: Can cause gastrointestinal irritation, vomiting. Aspiration (breathing) of vomitus into lungs must be avoided; can enter lungs and cause severe damage. Harmful or fatal if swallowed.

IARC has stated that there is sufficient evidence for the carcinogenicity of Cobalt metal powder in experimental animals. On the basis of animal evidence from experiments not regarded as relevant to human exposure, IARC has classified Cobalt as 2B, possible carcinogen for humans. They state that available epidemiological studies do not confirm an increased risk of cancer in exposed humans.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting eye, skin, and respiratory disorders may be aggravated by exposure to this product.

PRIMARY ROUTE (S) OF ENTRY: (X) DERMAL (X) INHALATION () INGESTION

SECTION VII - FIRST AID PROCEDURES

SKIN: Wash affected area with soap and water, flush with large amounts of water. If irritation persists, get medical attention. Do not continue to wear oil-soaked clothing. Discard oil-soaked leather goods.

EYES: Flush immediately with large amounts of water for at least 15 minutes while holding eyelids open. Get medical attention.

INHALATION: Remove victim to fresh air. Seek medical attention if symptoms persist.

SWALLOWING: DO NOT INDUCE VOMITING due to danger of aspirating oil into the lungs. If vomiting occurs spontaneously vomiting, keep head below hips to prevent breathing of liquid into the lungs. DO NOT give anything by mouth if the person is unconscious or having convulsions.

NOTE TO PHYSICIAN: Aspiration of liquid petroleum products into lungs may cause severe pneumonitis (oil pneumonia). Vomiting should not be induced.

SECTION VIII - REACTIVITY DATA

STABILITY: () UNSTABLE (X) STABLE

HAZARDOUS POLYMERIZATION: () MAY OCCUR (X) WILL NOT OCCUR

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HAZARDOUS DECOMPOSITION PRODUCTS: Combustion in restricted environments can produce carbon monoxide, carbon dioxide and various hydrocarbons.

CONDITIONS TO AVOID: Storage of combustible materials wetted with liquid can produce heat and spontaneous combustion.

INCOMPATIBILITY (MATERIALS TO AVOID): Stable under normal conditions of use. Avoid contact with strong oxidizers.

SECTION IX- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of vapor ignitions. Ventilate area. Stop spill at source. SMALL SPILL: Remove liquid waste with oil -absorbing compounds and non-sparking tools. LARGE SPILL: Exclude persons not wearing protective equipment, dike area of spill and pump liquid into salvage tank.

WASTE DISPOSAL METHOD: Do not incinerate closed containers. Do not dispose of waste material in sewers or waterways. Promptly incinerate wetted, combustible, oil -absorbing materials. Dispose in accordance with all local, State and Federal regulations.

SECTION X - PREVENTATIVE MEASURES

RESPIRATORY PROTECTION: If TLV of the product or any component is exceeded, a NIOSH/OSHA jointly approved, air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/OSHA respirators under specified conditions (see your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposure.

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

PROTECTIVE GLOVES: Oil resistant if prolonged liquid contact is likely.

EYE PROTECTION: Goggles with side shields when spraying or where splashing is likely.

OTHER PROTECTIVE EQUIPMENT: Oil repellent, protective clothing if prolonged liquid contact is likely.

HYGIENIC PRACTICES: Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before reuse.

SECTION XI - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: COMBUSTIBLE. Prevent contact with flames or hot surfaces. Do not store near heat. Keep containers closed when not in use. Avoid prolonged contact with skin. Avoid breathing concentrated vapors.

OTHER PRECAUTIONS: Store only in well-ventilated areas. Store out of sun and away from heat.

SECTION 313 - SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

CAS#	Chemical Name	% by Weight
100-41-4	Ethyl Benzene	<0.1
N/A	Cobalt Compounds	<1.0

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