

D & K Custom Machine Design
Material Safety Data Sheet

Product Name: **POLYOFF**
Product Code: None

Date: 6/06/02
Issue date: 7/25/01
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CAS No.: See Section I
Formula: Proprietary
Chemical Family: Organic Chemical Blend
Chemical Name and Synonyms: None

Supplier's Name: D & K Custom Machine Design
80 Bond St.
Elk Grove Village, IL 60007
847-956-0160

Transportation Emergency Phone Number: Chemtrec Domestic: 1-800-424-9300
International: 1-703-527-3887

SARA Information: Hazards: Fire: yes, Acute: yes, Chronic: yes
Physical Data: Mixture: yes, Liquid: yes

SECTION I HAZARDOUS INGREDIENTS

Ingredient	Percent	OSHA PEL	ACGIH TLV
Solvent Naphtha Petroleum (Cas #64742-88-7)	40-50	100 ppm Used Stoddard Solvent as guide	100 ppm
Aliphatic Glycol Ether *	5-10	N/E	N/E
Light Aromatic Solvent (Cas# 64742-95-6) containing:	40-60	100 ppm 50 ppm Industry rec.	100 ppm
O, M & P Xylene (Xylol) <> (Cas# 1330-20-7)	1-3	100 ppm STEL 150 ppm	100 ppm
Cumene (Cas# 98-82-8) <>	1-3	50 ppm OSHA/Skin designation	50 ppm
Trimethylbenzene <> (Pseudocumene) (Cas# 95-63-6)	5-20	25 ppm	25 ppm

<>These chemicals are subject to SARA III, section 313 part 372 reporting.

All ingredients appear on the EPA TSCA Inventory.

*Specific chemical name being withheld as a trade secret.

SECTION II ENVIRONMENTAL DATA

CERCLA INFORMATION - EPA - Comprehensive Environmental Response, Compensation and Liability Act. Under EPA-CERCLA (Superfund) releases to the air, land, or water may be reportable to the National Response Center (800-424-8802). (Circumstances surrounding the material, quantity, threat to environment and clean-up determine reportability). R.Q. 1000# spilled for Xylene and 5000# spilled for Cumene.

EPA-CWA: This product is classified as an oil and contains a component designated as a hazardous substance under section 311. Spills into or leading to waters that cause a sheen must be reported to NRC (800-424-8802).

RCRA INFORMATION - UNDER EPA -RCRA (40 CFR 261.21): If this product becomes a waste material, it would be classified as spent, ignitable hazardous waste, EPA Waste ID #D001. Xylene has a waste number of U239, ignitable and cumene has a waste number of U055, ignitable.

SECTION III PHYSICAL DATA

Boiling point: 320-359°F
Specific gravity: 0.837
Pounds/gallon: 6.97
VOC content: 98% (6.83#/gal)
Vapor pressure (mm Hg): 2.2 @ 68°F
Appearance and odor: clear liquid; aromatic odor.

Vapor Density: 4.3 (air = 1)
pH: N/D
Evap. Rate: Dry time: long
Solubility in water: N/D

SECTION IV FIRE & EXPLOSION DATA

Flash point (Method): 104°F (TCC)
Flammable limits (% volume in air): Upper: N/D; Lower: 1.0

Conditions of Flammability: This product is combustible. Do not use in areas of high heat, sparks, or open flames. Vapor is heavier than air and may collect in low spaces. Keep container closed when not in use.

Extinguishing Media: Use a dry chemical, foam or carbon dioxide fire extinguisher.

Hazardous combustion products: Oxide of Carbon.

SECTION V REACTIVITY DATA

Stability: This product is stable under all normal conditions of use.

Incompatibility: Avoid sparks, heat, open flame. Avoid reducing and oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and unidentified organic compounds may be released during combustion.

Hazardous Polymerization: Will not occur.

SECTION VI HEALTH HAZARDS

Route of Entry: The primary route of entry is inhalation.

Acute Effects of Exposure: If liquid is splashed into eyes, it will cause strong irritation and burning. Inhalation can produce respiratory irritation, weakness, and nausea. Ingestion of petroleum distillates can produce pulmonary edema, gastro-irritation, damage to vital organs, coma, and death.

Chronic Effects of Exposure: Repeated and abusive inhalation of petroleum distillate vapors can produce pulmonary, kidney, liver, cardiovascular and central nervous system effects.

Threshold Limit Value (TLV): The TLV for this product is as stated in Section I.

Irritancy to Skin: Petroleum distillates will remove natural moisture and cause drying and cracking.

Sensitization: No ingredients in this product are known to cause a sensitizing effect.

Carcinogenicity: This product contains no carcinogens listed by IARC, NTP, NIOSH, OSHA, or ACGIH.

SUPPLEMENTAL HEALTH INFORMATION:

Male rats exposed for 90 days, by inhalation to vapors of solvents similar to the medium aliphatic naphtha, showed evidence of kidney damage. The relevance of this effect to man is unknown. In one of the studies, a low grade anemia was also observed.

SECTION VI HEALTH HAZARDS (Continued)

Rats exposed for 4 months to 1700 ppm of a solvent similar to the light aromatic naphtha showed evidence of mild damage to the liver, lungs, and kidneys. These effects were not seen in rats exposed for one year to 350 ppm of another similar solvent. Lab animals exposed by various routes to high doses of xylene showed evidence of effects in the liver, kidneys, lungs, spleen, heart and adrenals. Rats exposed to xylene vapor during pregnancy showed embryo/fetotoxic effects. Mice exposed orally to doses producing maternal toxicity also showed embryo/fetotoxic effects.

SECTION VII PRECAUTIONS FOR SAFE HANDLING, CONTROL MEASURES, STORAGE & CLEANUP

Personal Protective Equipment: Wear gloves and glasses to protect skin and eyes. Wear chemical resistant gloves and other clothing as required to minimize contact. If exposure may or does exceed occupational exposure limits, use of a NIOSH-approved respirator is recommended. Use either an atmosphere-supplying respirator or air purifying respirator for organic vapors.

Engineering Controls: Insure adequate ventilation so that vapor concentration is maintained below the threshold limit value.

Additional Protective Measures: Safety shower, eye wash, and washing facilities.

In Case of Leak or Spill: Soak up small spills on absorbent and shovel into non-leaking containers for proper disposal. Use soap and water to clean residue. Dike large spills and keep product from entering the sewer. Turn off all nearby sources of ignition. Keep unauthorized personnel away from area. Call the local fire department. Soak up on non-reactive absorbent material. Clean up crew should wear rubber boots and use rubber shovel. Place material in a covered container for later disposal.

Waste Disposal: Give waste to an authorized hazardous waste hauler. Follow all Federal, state and local regulations.

Handling Procedures: Empty containers may contain flammable vapors or hazardous residues. Follow regulations for empty container disposal. Ground containers when transferring product.

Storage Requirements: Store in cool, dry area away from sunlight and high heat sources.

HMIS(NFPA): 2(2)-2(2)-0(0) Personal Protection: B

SECTION VIII FIRST AID MEASURES

Eyes: Hold eye lids open and rinse with water for fifteen minutes. Contact a physician if irritation persists.

Skin: Wash with soap and water.

Ingestion: Keep victim calm. Administer oxygen if breathing is difficult. Do not induce vomiting. Seek medical attention immediately.

Inhalation: Have victim move to fresh air. Apply artificial respiration if breathing has stopped.

Note to Physician: If product is ingested, use best judgement. Petroleum distillates can cause liver and kidney damage, but may produce chemical pneumonitis if introduced into lungs.

SECTION IX D.O.T. REGULATIONS

Under D.O.T. Hazardous Materials Regulations, this product may be classified as a combustible liquid unless transportation is by vessel or aircraft. (Ref. 49CFR 173.120)

For ground transportation in non-bulk packaging (119 gallons or less), this product is not regulated as a hazardous material by D.O.T. (Ref. 49CFR 173.150)

In bulk packaging (containers greater than 119 gallons) the shipping description follows:

Proper Shipping Name: Combustible liquid n.o.s. (contains xylene, light aromatic naphtha)

Hazard Class: Combustible liquid; ID #: NA1993; PG: III; Label requirements: None

< = LESS THAN	N/A = NOT APPLICABLE	UNK = UNKNOWN
> = GREATER THAN	N/D = NOT DETERMINED	N/E = NOT ESTABLISHED

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Federal Law requires persons receiving the Material Safety Data Sheet to study it carefully, become aware of the hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents, and contractors of the information on this sheet, (2) furnish a copy to each of your customers for the product, and (3) request your customers to inform their employees and customers as well.